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No. 4,234 82nd YEAR

THURSDAY, AUGUST 18, 1960

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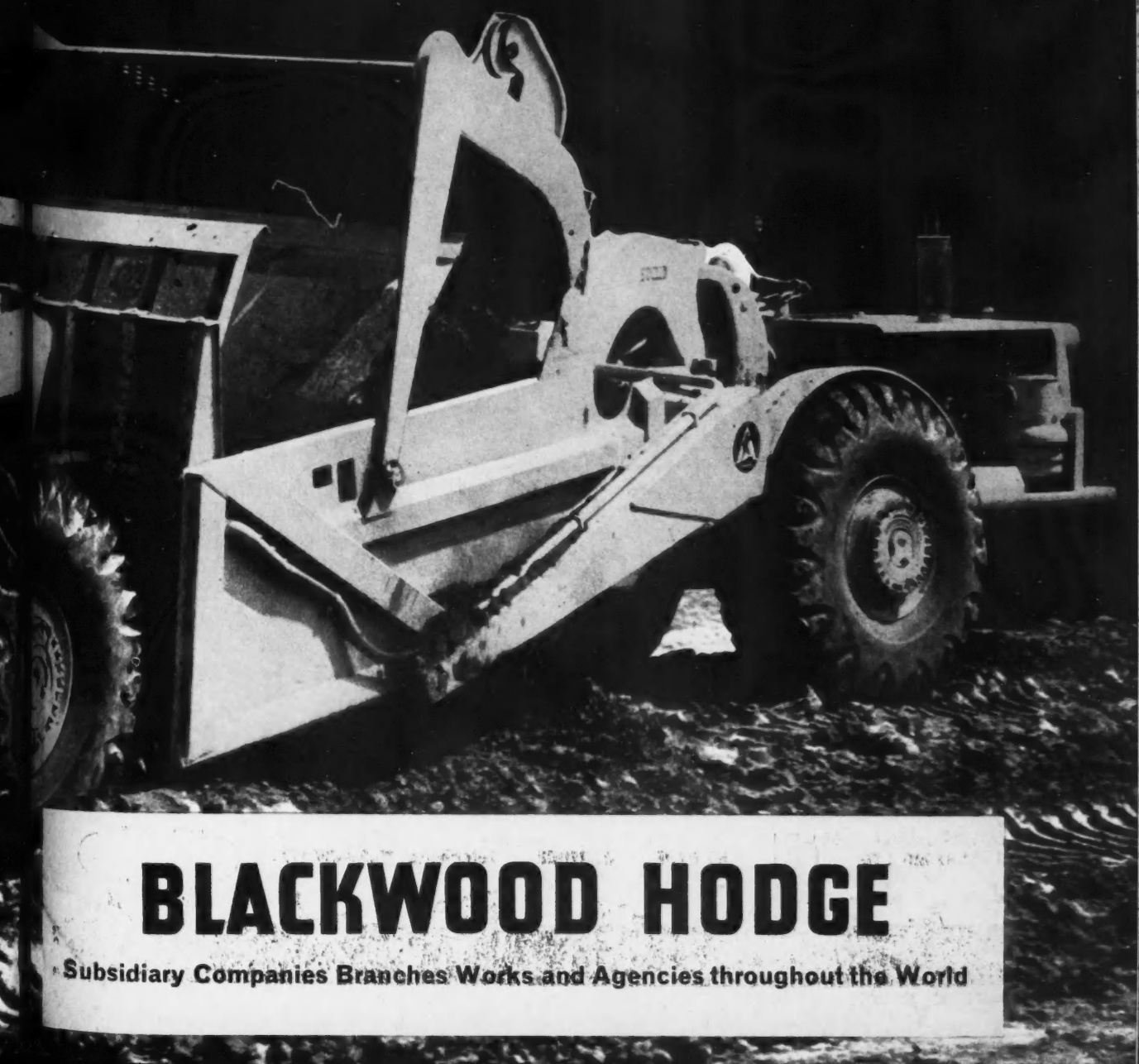
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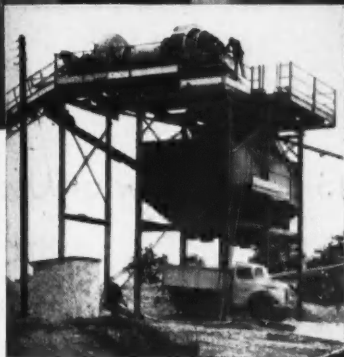
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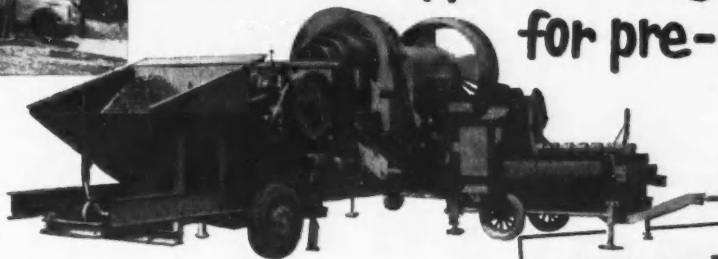
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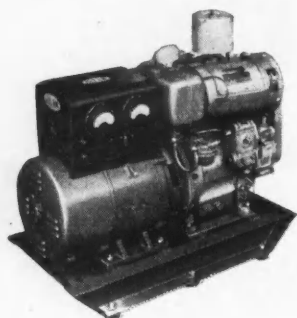
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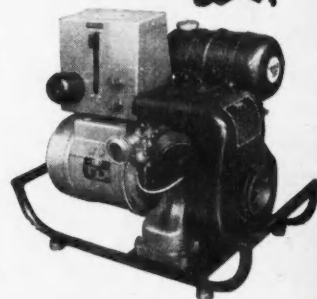


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“BROOMWADE” for Big Contracts

Thousands of yards of gas and water mains had to be diverted at Hyde Park Corner prior to the construction of the Underpass from Knightsbridge to Piccadilly—a project that called for considerable ingenuity as traffic hold-ups had to be avoided as much as possible.

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The contractors, Martin Cowley Limited of Derbyshire, are aiming to complete this £1,800,000 contract in 19 months and Shell-Mex and B.P. Ltd. are helping them to achieve this.

For Shell-Mex and B.P. Ltd., the major fuel suppliers during the building of M1, have had a

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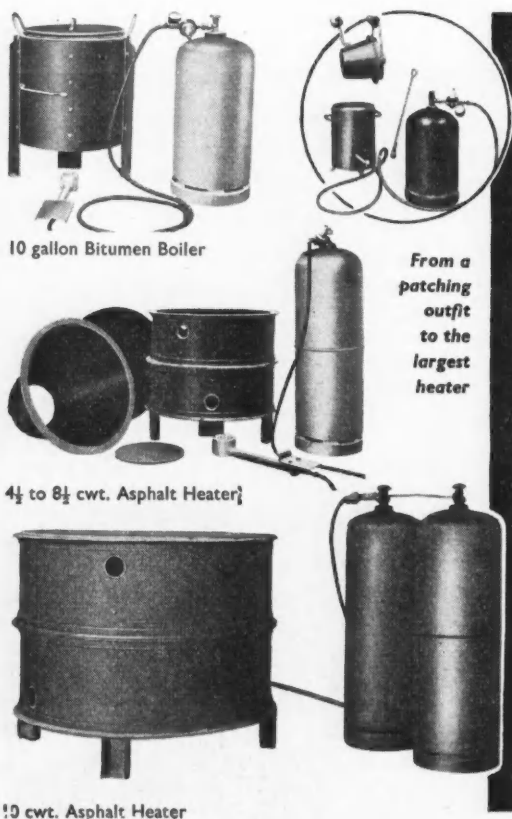
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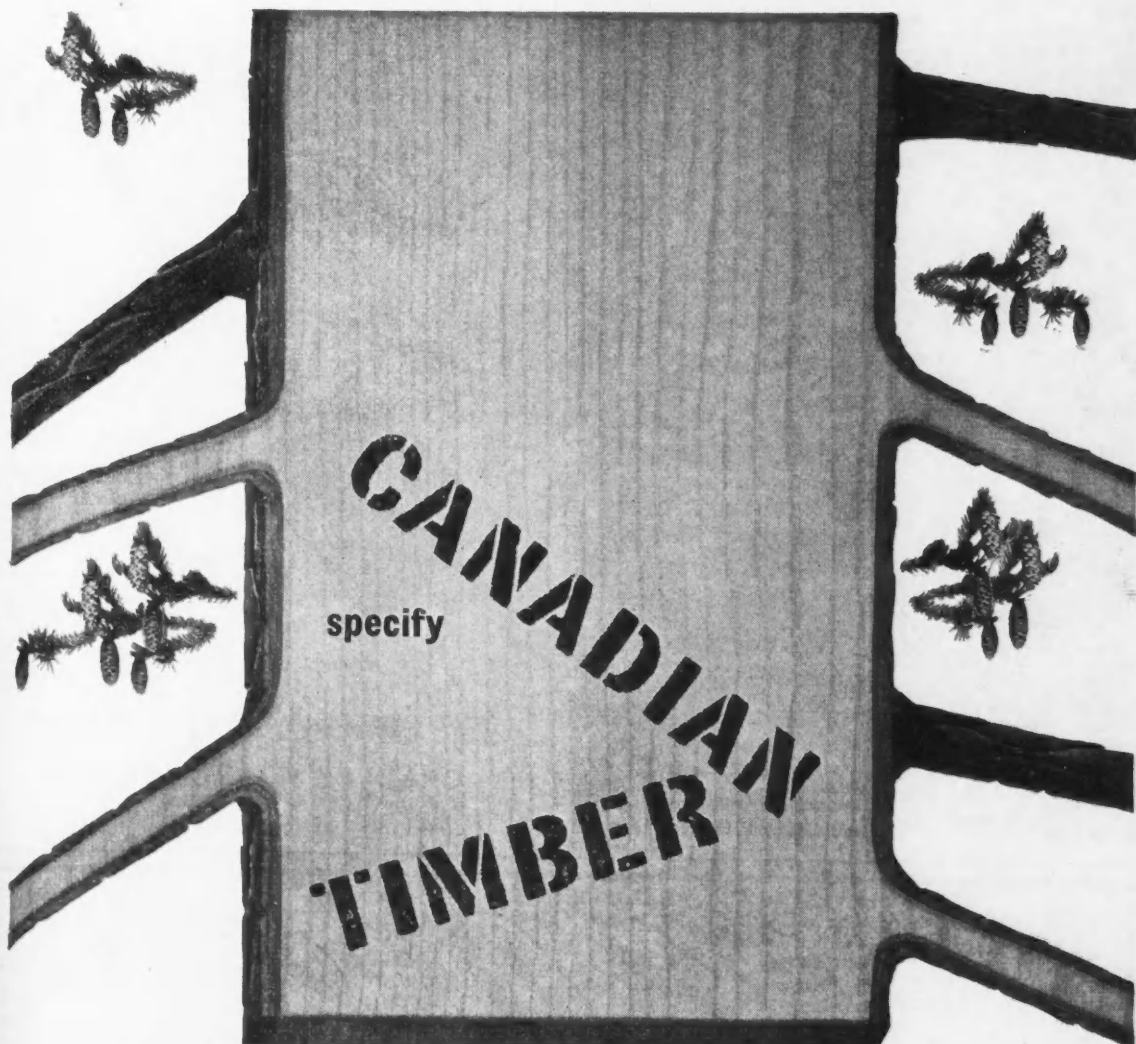
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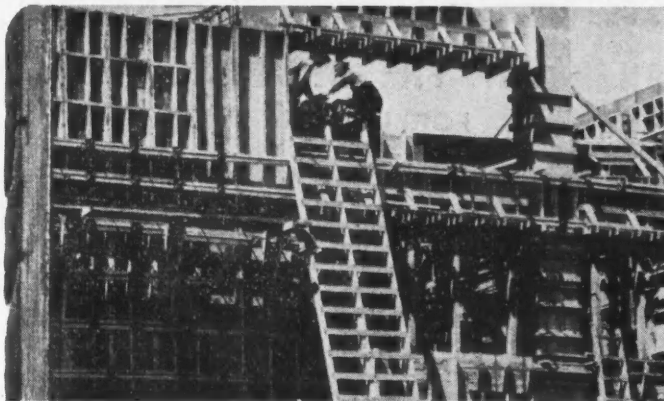
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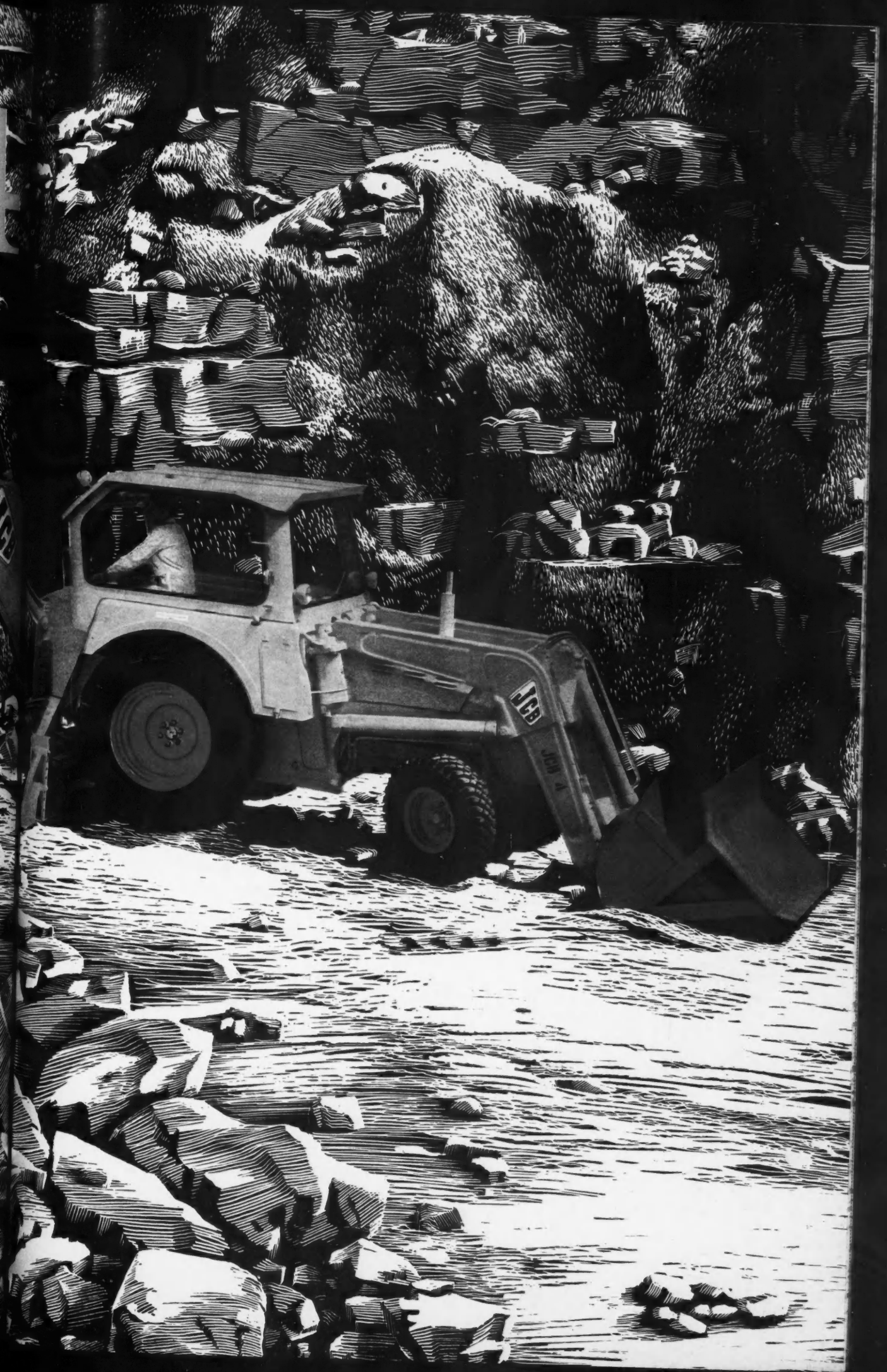
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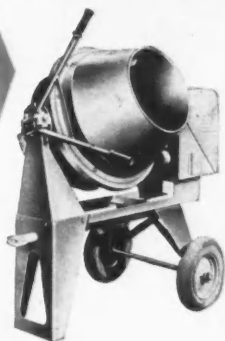


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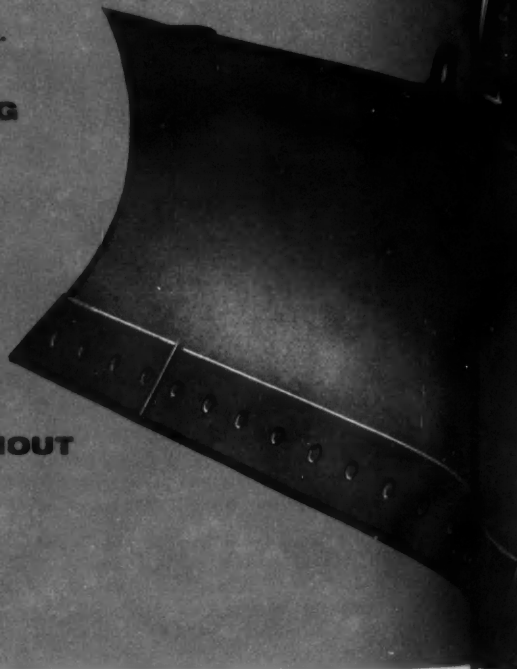
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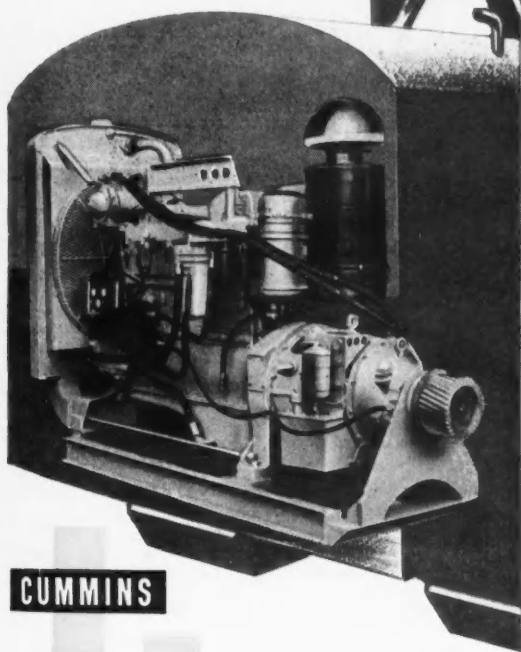


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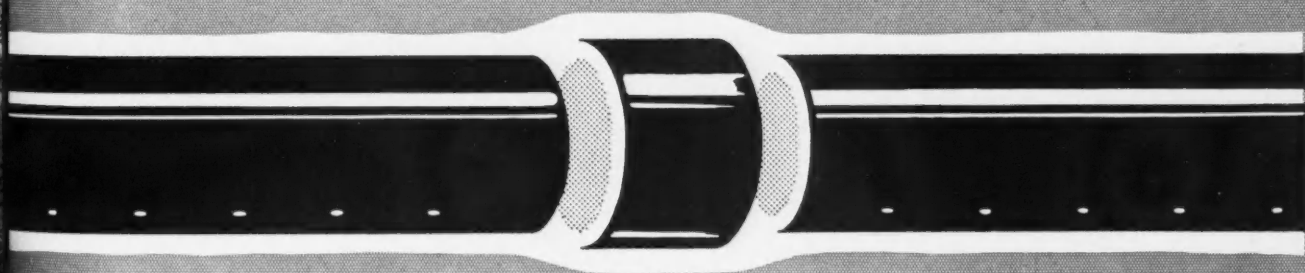


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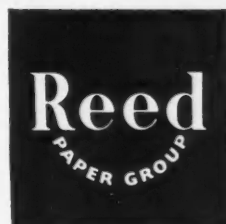
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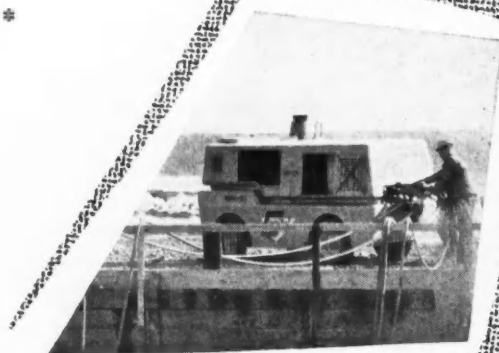


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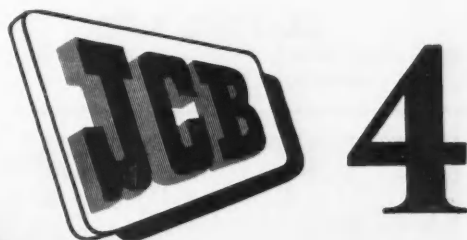


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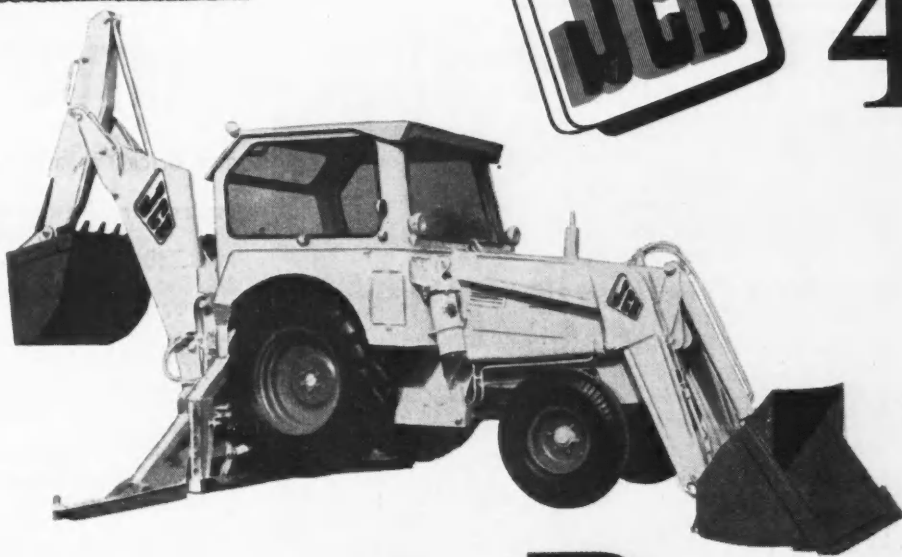
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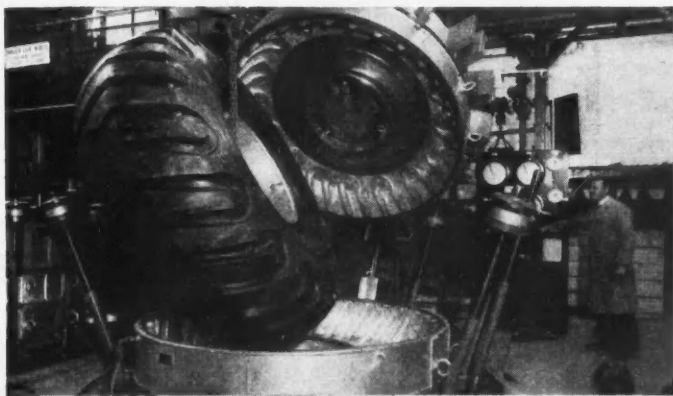
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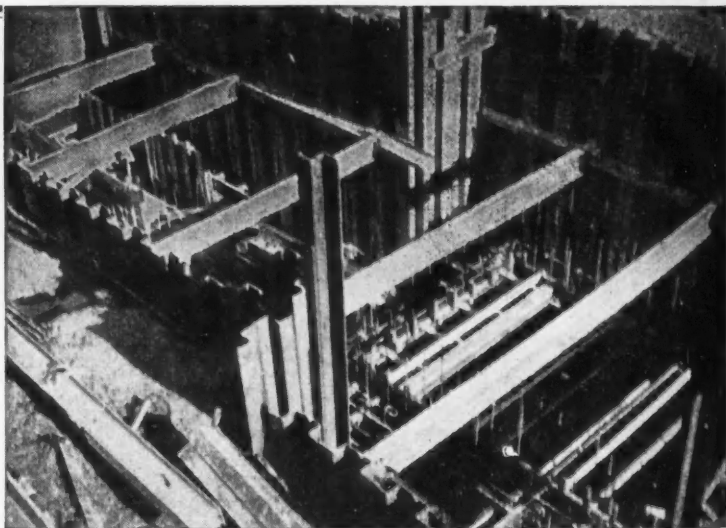
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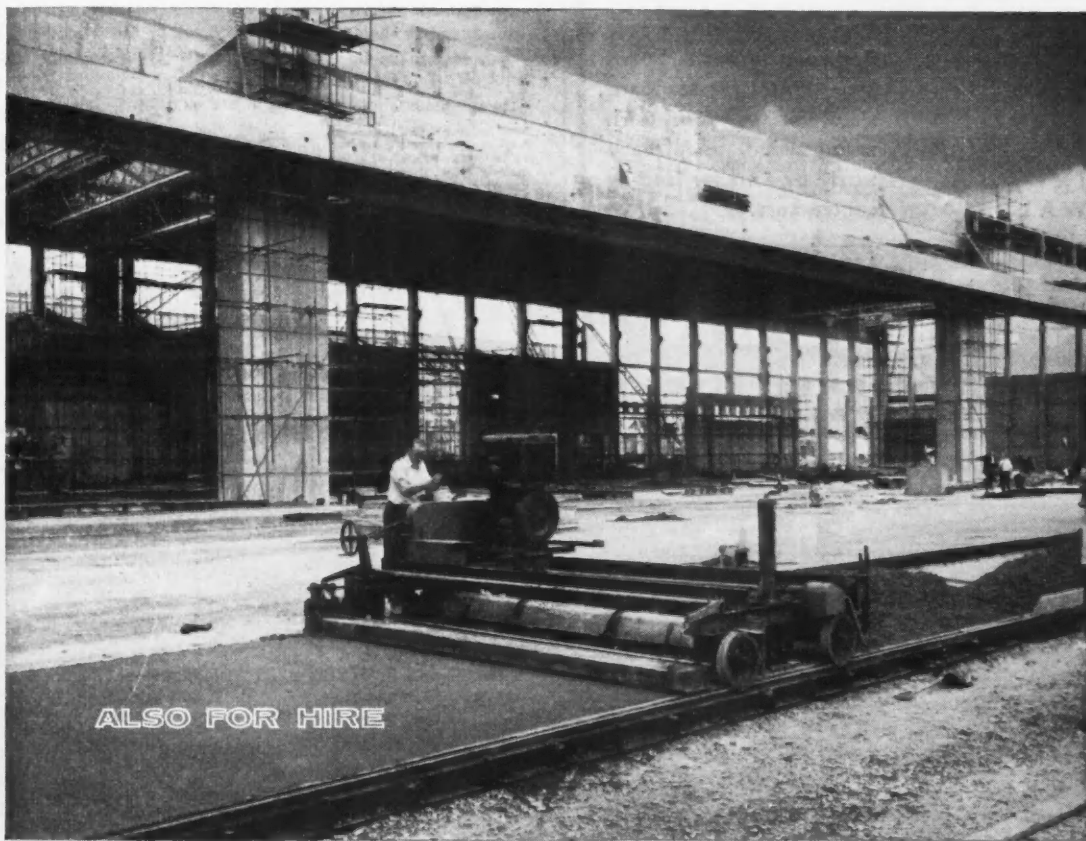
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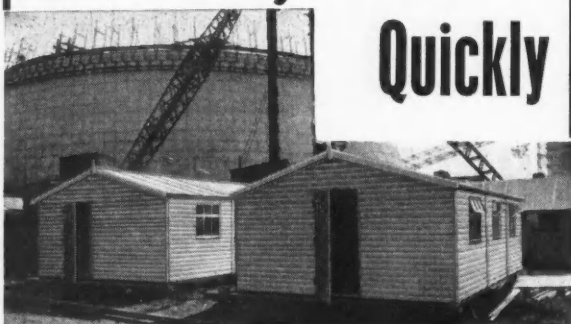


This photograph of a Concrete Finisher was taken by the courtesy of Messrs. Holland & Hannen and Cubitts (Great Britain) Limited, at the B.E.A. Engineering Base, London Airport. The outstanding feature of this machine is its versatility. Its frame is adjustable from 4ft. to 16ft. and it can be used for one or two layer construction, also for the vibration of the sub-base. The Finisher at London Airport compacts the 15ft. wide slabs of the apron, also the 12ft. slabs of the hangar floors and with an extra pass, the granolithic layer in the hangar. The machine is fitted with a cutting blade and it cuts all the joints in the freshly placed and compacted concrete. In spite of its light weight the machine achieves perfect compaction of the 10in. thick slabs and the surface is well within the specified tolerance of $\frac{1}{4}$ in. in 10ft. The Finisher is powered by a 7.5 H.P. Diesel Engine and can run on forms, on rails, on the finished concrete or on pre-laid kerbs. This inexpensive machine is manufactured by the S.G.M.E. of Belgium and the Sole Agents will be very pleased to give full details.

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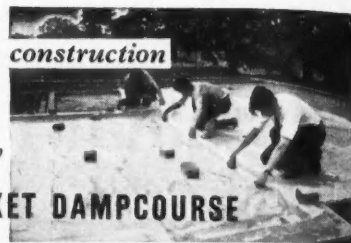
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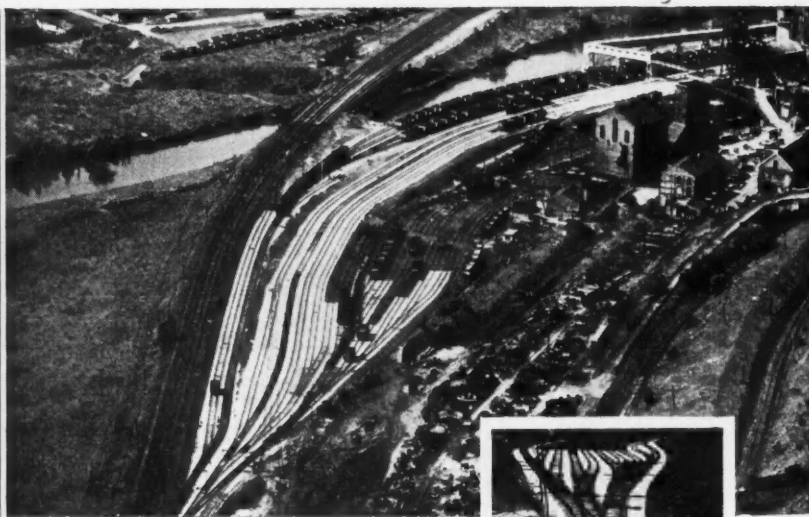
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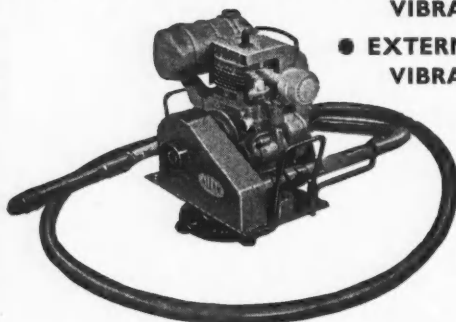
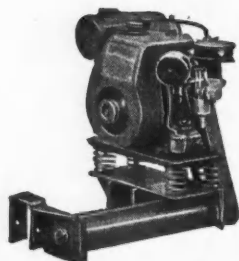
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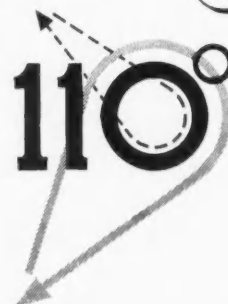
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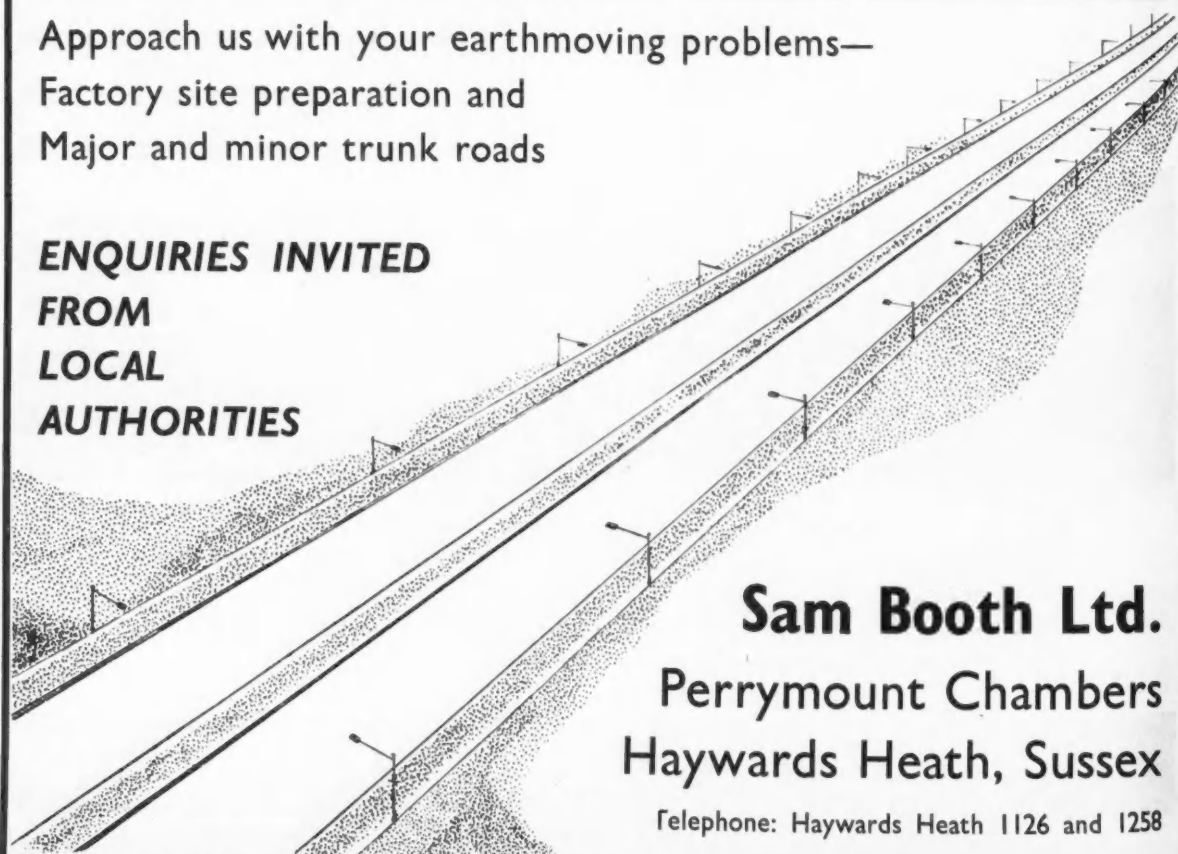
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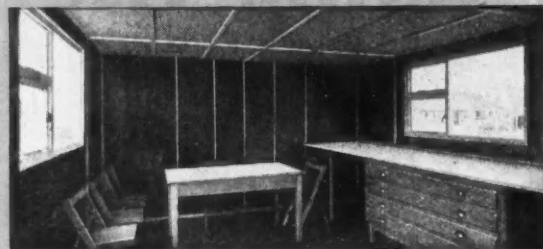
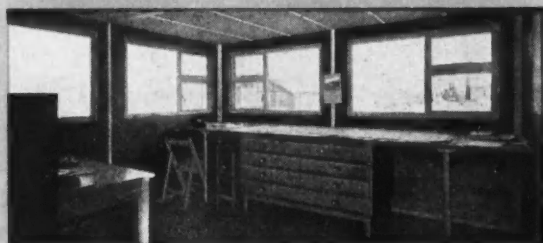
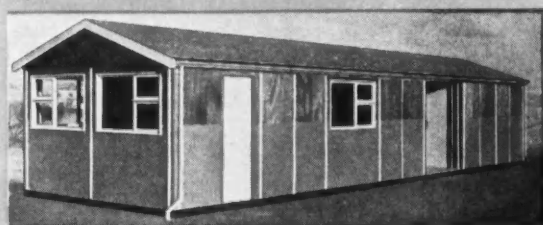
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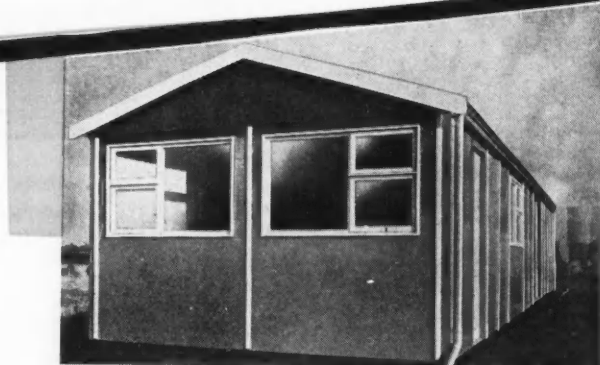
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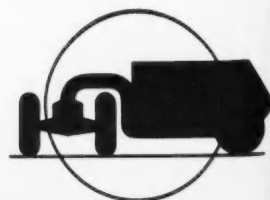
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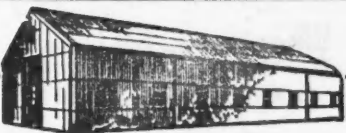
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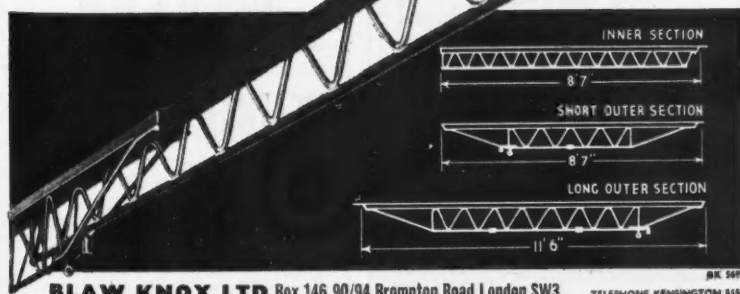
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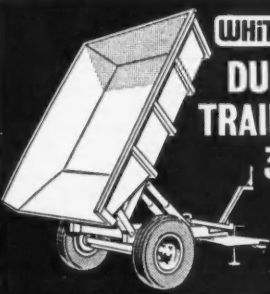
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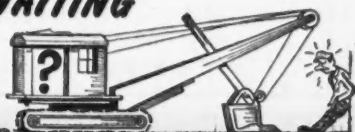
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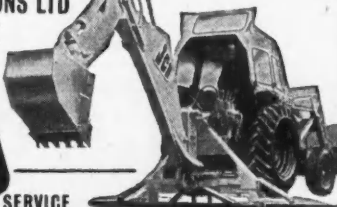
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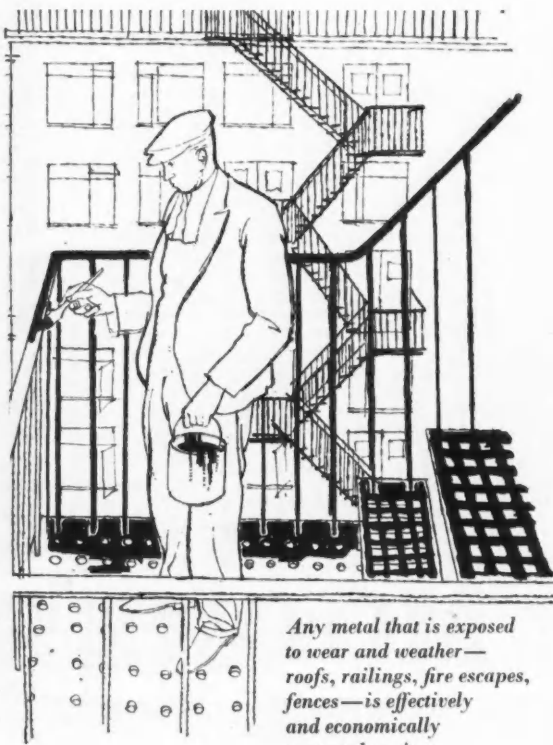


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International reports say greater economy and output targets reached

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Vancouver Monorail 'Line Automation' has won the "Star Performance" Award for most efficiently performing the functions for which it was designed. The award was granted by the Western Canadian magazine "Construction World".

Germany Monorail is constantly winning fresh acclaim in the German national press, including such remarks as: "The simplest, most economical and rational method of transporting concrete", and in another paper: "... only thanks to Monorail could work continue under these conditions. Under conditions such as these it would be true to say that if the Monorail had not been invented, someone would have had to invent it here."

Most large German contractors now use British-built Monorail for their placing of concrete, and the sales in Germany are soaring.

Rhodesia Monorail 'Line Automation' helped to make a record pour of 2,292 cu. yds. of concrete in 124 hours during the construction of a new reverberatory furnace at a copper mine. It was the largest continuous pour ever undertaken there. The average rate of pouring the concrete was 18.55 cu. yds. per hour.



MONORAIL needs no driver



MONORAIL crosses ditches, streams



MONORAIL cuts costs on small sites too

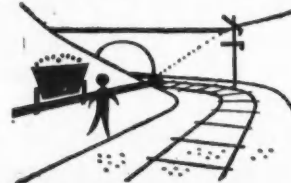


MONORAIL is so easy to install

Beirut Monorail 'Line Automation' proved its superiority on the shores of the Dead Sea, 1,300 ft. below sea level. During the initial flooding of the salt pans the bunds had to be repaired, but the trouble spots were inaccessible to wheeled vehicles. The easily placed Monorail across the ponds enabled the necessary repairs to be made quickly and efficiently.

Denmark The Danish Unskilled Workers' Journal, in an article on the Monorail, said: "... the system is absolutely the most economical over distances between 50 and 300 metres that has yet been invented."

Sweden Three Monorail units, riding side by side, were used for the concreting in the construction of the Stockholm Underground.

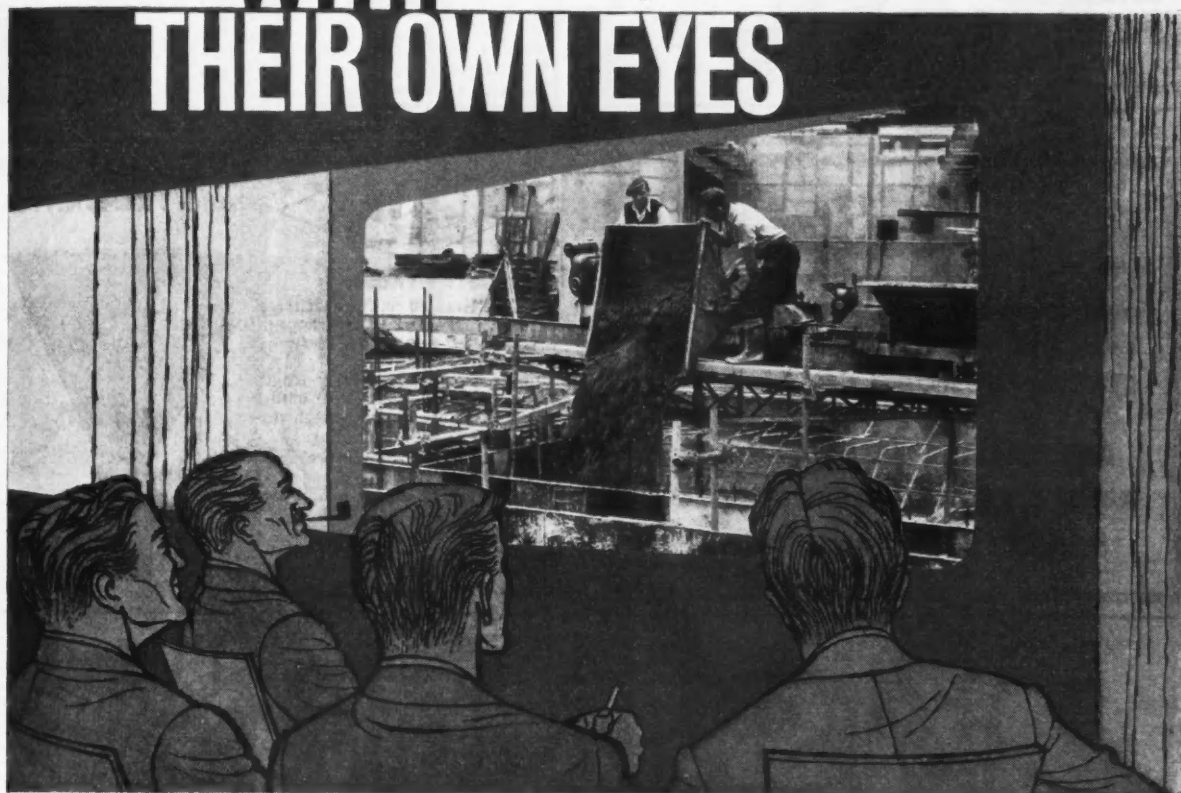


MONORAIL reaches where wheeled vehicles cannot

Rotterdam On the Rotterdam Power Station construction, —the largest power station in Europe—692 cu. m. of concrete were poured in one 8-hour day, entirely with the Monorail. Four sets were used.

Brisbane A prominent Australian contractor says: "It is indispensable. The Monorail is now becoming a familiar sight on many construction jobs that involve the placement of large quantities of concrete and other material, delivering 22 cu. ft. of concrete every four minutes, even where the placement area is over 100 yds. from the mixer."

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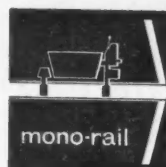
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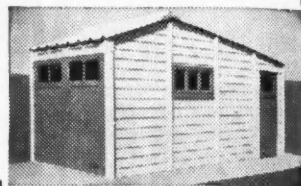
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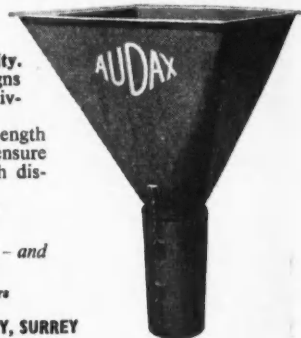
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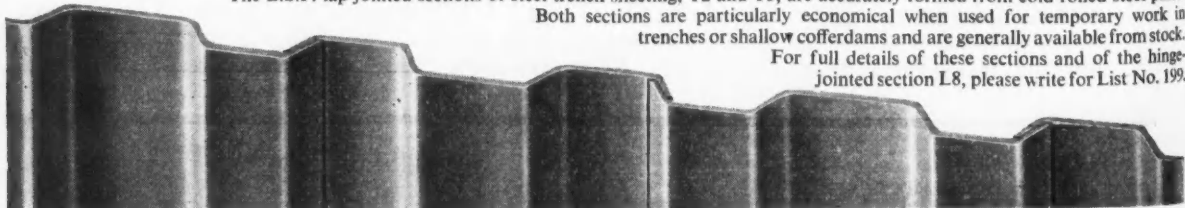


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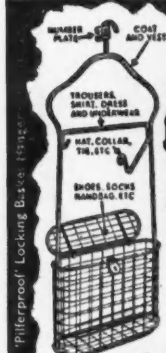
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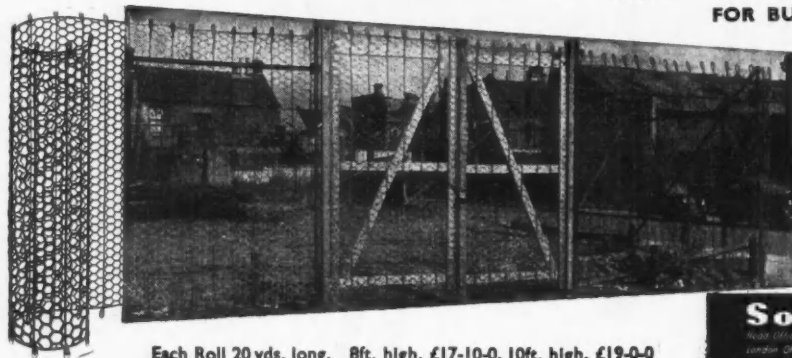
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— neither waiting for the other.

Both full or empty skips can be collected or deposited by the dumper.

- ★ When the mixer is sited outside the crane's radius, "Trip-Skip" maintains continuous concreting cycle.
- ★ The dumper is entirely independent of the crane — neither is waiting for the other.
- ★ Whilst one batch is placed by the crane, the dumper is hauling yet another filled skip from the mixer.
- ★ Four sizes available—30 cu. ft., 21 cu. ft., 16 cu. ft. and 12.5 cu. ft. (struck capacities).
- ★ Standard attachment for pouring narrow walls and columns without spillage.
- ★ "Trip-Skip" is interchangeable with normal tipping skip on all Johnson Dumpers.
- ★ The Johnson System enables a *filled* skip to be picked up by the dumper — useful when muck-shifting from excavations, etc.
- ★ Have a demonstration on your job.



Filled skip is lodged in Ground Frame, ready for the crane. Dumper backs out, picks up an empty skip from second Ground Frame and returns to mixer for another batch.

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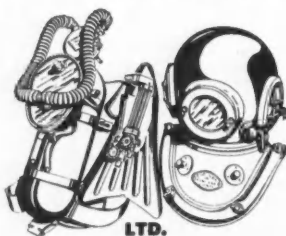
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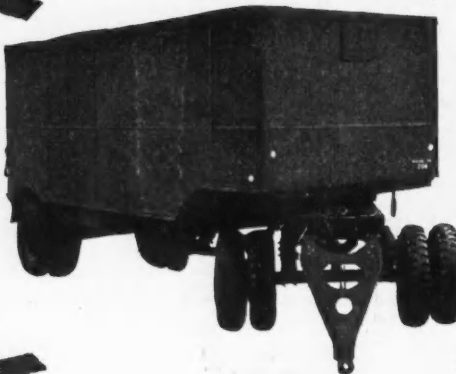
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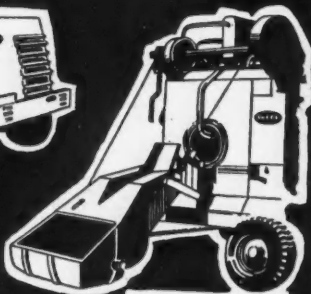
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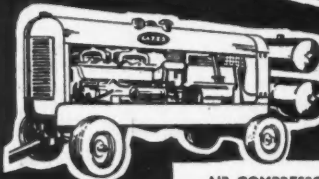
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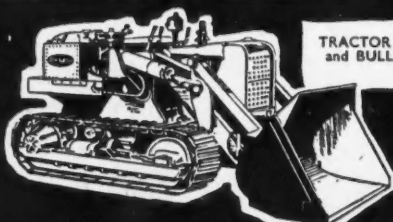
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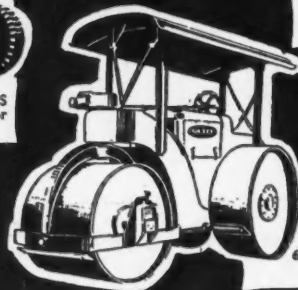
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Telephone: EMBerbrook 2800/1 & 5511 (Night 6147)



Normal control 6 cubic yard

7 ton rating. 300 cu. in. Bedford-built six-cylinder diesel or petrol engine. Bedford two-speed rear axle optional, giving low ratio for super traction, high ratio for speed and economy when travelling light. Diesel chassis from £1,055, chassis-cab £1,130, tipper £1,380.

Normal control 5 cubic yard

6 ton rating. Powered by 214 cu. in. six-cylinder petrol engine or 300 cu. in. diesel. Single ratio rear axle fitted as standard, but Bedford 2-speed axle available as a regular production option. Petrol chassis £820, chassis-cab £895, tipper £1,065.

Made by
Vauxhall Motors Ltd, Luton, Beds.

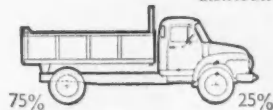
There's nothing to touch a Bedford tipper's performance in muddy conditions. Cleverly thought-out weight distribution makes sure of maximum traction all the time!

There's nothing like a Bedford for standing up to the heavy impact loading of excavators. Note the depth of those Bedford FRAMES and those cold-squeeze riveted cross-members! Note the Bedford springs — 45 to 50 inches long at the front with telescopic shock absorbers, heavy duty progressive at the rear.

You won't find these tippers shaking to pieces! Even the WHEELS are now welded for maximum ruggedness. POWER UNITS Bedford long-life diesel or petrol; GEARBOXES four or five speed in heavy duty cast-iron casing; AXLES single speed or Bedford's own two-speed job; all are engineered for long dependable service.

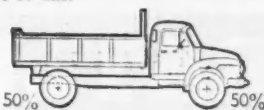
And always within easy reach, wherever you're operating, there's experienced Bedford SERVICE available with ready stocks of genuine low cost Bedford parts. But see your Bedford dealer — he can tell you every particular thing you want to know.

Mud doesn't worry the driver of a Bedford! See how well-designed weight distribution takes care of this.



Laden

When this Bedford 6 cu. yd. normal control tipper is fully laden, 75% of the weight is on the rear wheels, giving splendid traction and lots of grip for slippery gradients. No bogging down here!



Unladen

Even when unladen, half the weight is still on the driving wheels to give grip and prevent spinning in soft ground... Smartly into position, smartly away: that's Bedford!

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RING SIMonswood 2542

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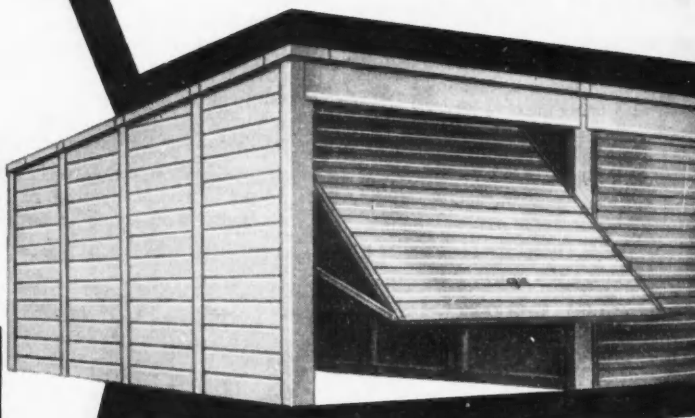
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Godiva Ribbed Multiple Garages



Batley offer the most adaptable and economical technique in lock-up garage erection. Can be erected back-to-back; or stepped to suit sloping sites. Fitted with 'Up and Over' or hinged doors as required or available with wooden roller shutter doors as optional extra. Free advisory service; 3 years guarantee; 5 years free fire insurance; Attractive deferred terms; Extensive free delivery area.

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ACE SERVICE: "Service to the Customer",
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Water spells trouble

Excavation in waterlogged ground is, even at the best, a messy and uncomfortable job. It is wasteful in materials and therefore costly. If running sand is present, it can also be dangerous.

Fortunately there is a remedy.

Wellpoint pumping is the most successful method of lowering the water table. Sykes, with over a century of experience in pumping, have developed a wellpoint system with the important advantage that, once installed, it requires the minimum of attention. The Sykes Jetwell is a great advance on other types of wellpoints, combining very high efficiency with ease of operation. The famous Sykes Univac self-priming centrifugal pumps, with their exceptional air-handling capabilities, are especially suitable for wellpoint installations. The range of sizes—2 in. to 12 in.—covers every dewatering application.

Let us help you with your dewatering problem.

Sykes Jetwell installations, complete with suitable pumps, may be purchased outright or hired for any period.

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A Flextol motor and shaft drive, using the various handpieces and tools available, will remove rust, scale, concrete and other deposits from valuable plant and will make maintenance an easy and speedy job.

Accessories cover the operations of scaling, wire brushing, disc sanding, roller sanding, grinding and many other essential jobs.

Equipment is also available for tube cleaning.

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Telephone: Ealing 6444/7

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THE IRISH BEAT THEIR BOGS

Austins help in great national enterprise

Roughly one-seventh of Ireland is bogland. Black barren wastes, 90% water, that would drown the man who walked on them. For generations the fringes alone have been nibbled for fuel. But today a great new enterprise is beating the bogs and harvesting wealth from the wasteland.

Ireland's biggest enterprise

Bord na Mona (the Peat Board), established in 1946, is now Ireland's biggest national industry. Its achievements in 14 years: 100,000 reclaimed acres, producing over 4 million tons of fuel a year. Employment for over 7,000 people; 2 huge hostels, 8 model villages for workers. 400 miles of railway criss-crossing the bogs. A research station, museum and factories for fuel processing and pipe making.

Bogs take 6 long years to drain and develop before production starts. Over the black expanses, enormous machines lumber, stark against the sky, trenching, cutting, stripping, turning, stacking and loading the soil. The peat is used in homes and factories or fed directly to the 6 power stations sited on the bogs. Another product, peat moss, is exported to world-wide markets.

On the road

Then there are peat briquettes. For these Bord na Mona started 2 new factories in 1958, importing 60,000 tons of material. Austin 5 tonners, one with Scammell trailer, shift 50-150 tons at a time from Dublin docks, averaging 40,000 miles a year. The Austin Scammell also tows giant machines, many 27 ft. long and 17½ tons in weight.

Austin 5 and 7 tonners transport pipes, labour and peat moss. 3 and 5 ton tippers work on housing sites. 30 Austin vans are used for personnel and servicing and one 4-year-old 10 cwt. is a hard-working refuse collector.

The Board have run Austins for 7 years. Soon 6 new ones will swell the fleet of 67. Shaun Banks, Transport Manager, says: "Austins are doing an excellent job for us. They're very economical, with little mechanical trouble. In 1½ years I haven't had a let down. If I was asked to recommend a truck, I'd say—get an Austin."

The ½-7 ton Austin range is warranted for 12 months and backed by B.M.C. Service. Bord na Mona's Austins are supplied by Lincoln & Nolan Ltd., Dublin.

AUSTIN

THE AUSTIN MOTOR COMPANY LIMITED
LONGBRIDGE • BIRMINGHAM



Giant machines await maintenance at Boora, Co. Offaly. Many have been towed there by Austins. Behind them stretch 15,000 black bog acres. A 7 ton Austin takes on 60 pipes, each weighing 2½ cwt., for delivery to drainage sites.



Passing Dublin's famous Customs House, 2 Austin 5 tonners move heavy machinery from the docks to new factory sites. The Transport Manager says: "The material must keep moving—so reliable transport is vital. Our Austins have done exceptional work here."

At Kilberry (Co. Kildare) peat moss factory, a 5 ton Austin loads with burlap bales for export. Bord na Mona's peat moss is used for agriculture and poultry all over the world, and noted for consistent quality. 90% of British mushrooms grow on this Irish moss.





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CONTRACTS

BOROUGH OF UXBRIDGE.

CONTRACT NO. 453.

PEACHEY LANE IMPROVEMENT.

The BOROUGH COUNCIL invite TENDERS for the ABOVE CONTRACT from experienced contractors. The work will comprise the Reconstruction in Hardcore with Tarmacadam and Bitumen Macadam Surfacing of approx. 960 sq. yd. of Carriageway, the Laying of 130 yd. of 9in. Surface Water Sewer, together with Kerbing Footway and ancillary works. Plans may be seen, and Specification, Form of Tender and Bills of Quantities may be obtained from HAROLD E. G. STRIPP, A.M.I.C.E., Borough Surveyor, 263 High Street, Uxbridge, and must be returned to the undersigned not later than 10 a.m., WEDNESDAY, the 31st August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

E. RONALD WEST,
Town Clerk.

WELWYN GARDEN CITY URBAN DISTRICT COUNCIL.

BRIDGE ROAD EAST/BESSEMER ROAD/
BROADWATER ROAD JUNCTION—
RECONSTRUCTION AND WIDENING.

TENDERS are invited for the CARRYING OUT of the ABOVE WORKS, consisting of the following approx. quantities: 4,800 sq. yd. Gravel Asphalt Surfacing; 2,350 sq. yd. Dry Lean Concrete Foundation; 1,700 sq. yd. Taking-up and Re-laying Precast Concrete Paving; 550 lin. yd. Taking-up and Re-laying existing Natural Granite Kerb, together with all necessary Excavations and ancillary works.

Copies of the Specification, Bills of Quantities and Form of Tender may be obtained from, and the Drawings and General Conditions of Contract may be inspected at, the Office of the Engineer and Surveyor, Council Offices, Welwyn Garden City.

Tenders to be delivered to the undersigned, in plain sealed envelopes, endorsed "Bridge Road East Junction Improvement," not later than Noon on MONDAY, 29th August, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

L. J. SLOCOMBE,
Clerk of the Council.

Council Offices,
Welwyn Garden City,
28th July, 1960.

EAST BARNET URBAN DISTRICT COUNCIL.

CONTRACT NO. 929.

RECONSTRUCTION OF FOUR HARD TENNIS COURTS
AND RENEWAL OF CHAIN LINK SURROUND AT
OAK HILL PARK.

FIXED-PRICE TENDERS are invited from specialist contractors, experienced in the Construction of Tennis Courts, for the RECONSTRUCTION in BITUMEN MACADAM AND CONCRETE, of FOUR, NON-ATTENTION TENNIS COURTS, together with the RENEWAL of 9in. HARD TENNIS COURT SURROUND in Plastic-coated Galvanised Chain Link Fencing.

Forms of Tender, Supplementary Conditions of Contract, Specification and Bills of Quantities, may be obtained from the ENGINEER AND SURVEYOR, Town Hall, Station Road, New Barnet, Herts., on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Tenders, sealed in the envelope provided, must be received by not later than SATURDAY, 27th August, 1960.

The lowest or any Tender will not necessarily be accepted.

ASHTON - IN - MAKERFIELD URBAN DISTRICT COUNCIL.

SEWAGE DISPOSAL WORKS.

The Council invite TENDERS from contractors experienced in similar work for the CONSTRUCTION of the FOLLOWING WORKS in one contract:—

(1) New Sewage Disposal Works for population exceeding 20,000, including Seven Reinforced Concrete Tanks, 40ft. and 45ft. dia., up to 14ft. in depth, Four 85ft. dia. Percolating Filter Beds, Sludge Beds, Valve Chambers, Balancing Tanks, Recirculation Pumping Stations, Pipework, Manholes and other appurtenant works.

(2) Sewerage at Bryn Gates, including 725 yd. of 15in. and 12in. dia. Sewers, a Pumping Station, and 1,650 yd. of 7in. dia. Pumping Main, Manholes and other works.

(3) 585 yd. of 18in. dia. C.I. Pumping Main. Applications for the Form of Tender, Specification and Bill of Quantities should be made to the Council's Consulting Engineer, Messrs. WARD, ASHCROFT AND PARKMAN, 38 The Temple, Dale Street, Liverpool, 2, with names of engineers for whom similar works have been constructed, together with a deposit cheque for £5 5s., made payable to the Ashton-in-Makerfield Urban District Council, which will be returned on receipt of a bona-fide Tender completely priced out.

Drawings may be inspected either at the Offices of the Consulting Engineers or the Council's Engineer during the usual office hours. Copies of the Drawings, which must be returned when Tenders are submitted, may be obtained by payment of £5 5s. (non-refundable) to the Consulting Engineers.

Tenders shall be delivered in plain sealed envelopes, clearly marked "Sewage Disposal Works—Edge Green," to the undersigned not later than 9 a.m. on MONDAY, 19th September, 1960.

FRANK DEAN,
Clerk of the Council.

Town Hall,
Ashton-in-Makerfield.

NORTH LONSDALE RURAL DISTRICT COUNCIL.

SUNBRICK WATER SUPPLY SCHEME.

TENDERS are invited for the LAYING of approx. 1,140 lin. yd. of 2in. dia. ASBESTOS-CEMENT WATERMAIN, the CONSTRUCTION of a SMALL PUMP HOUSE and a 6,000-gallon capacity R.C. STORAGE TANK at SUNBRICK, which is approx. four miles south of the Bilton.

A copy of the Bills of Quantities and Specification may be obtained from, and the Plans inspected at, the Office of the Council's Engineer, MR. H. WHITTAKER, A.M.I.C.E., A.M.I.P.E., 24 Queen Street, Ulverston. Tenders, in plain sealed envelopes, endorsed "Sunbrick Water Supply," to be lodged with the undersigned not later than 12 Noon, THURSDAY, 25th August, 1960.

F. D. YOULE,
Clerk of the Council.

24 Queen Street,
Ulverston.

CONTRACTS

BOROUGH OF SHREWSBURY.

MUSIC HALL ALTERATIONS.

FIRM-PRICE TENDERS are invited from building contractors for ALTERATIONS at the MUSIC HALL, comprising New Kitchen and Catering Equipment, Installation of Passenger/Goods Lift, and Addition of Mayor's Retiring Room.

Bills of Quantities, Specification and Tender documents may be obtained upon application to the Borough Surveyor, Guildhall, Shrewsbury, upon payment of a deposit of Three Guineas (by cheque, payable to Shrewsbury Corporation) which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn. Drawings may be inspected at the Office of the Architect, GRAHAM F. GOATLEY, A.R.I.B.A., Foresters' Hall, Wyle Cop, Shrewsbury, during normal office hours.

It is anticipated that the work will be started during September, and contractors tendering must be in a position to fulfil this requirement.

Tenders, in the envelope provided, endorsed "Music Hall Alterations," must be received by the undersigned not later than First Post on WEDNESDAY, 31st August, 1960.

S. R. H. LOXTON,
Town Clerk.

Guildhall,
Shrewsbury.

BOROUGH OF WISBECH.

LEROWE ROAD HOUSING SITE—ROADS AND
SEWERS.

TENDERS are invited for the CONSTRUCTION of ROADS, SEWERS, and incidental works, at Lerowe Road Housing Site, Wisbech, comprising approx. 840 super. yd. of Lean Mix Concrete Carriageway, 319 lin. yd. of Kerb and 316 lin. yd. of Soil and Surface Water Sewers.

Forms of Tender, Bills of Quantities, Specification and Plans may be obtained from the Borough Engineer and Surveyor, Church Terrace, Wisbech, Cambs., upon deposit of Two Guineas, to be refunded upon receipt of a bona-fide Tender and return of all documents.

All Contracts are subject to the Standing Orders of the Council with respect to Contracts, and the Council does not bind itself to accept the lowest or any Tender.

Tenders, to be endorsed "Lerowe Road Housing Site—Roads and Sewers," and forwarded, in the envelopes provided, to reach the undersigned not later than 12 Noon on MONDAY, 5th September, 1960.

N. E. DEWICK,
Town Clerk.

Town Hall,
Wisbech,
August, 1960.

SWANAGE URBAN DISTRICT COUNCIL.

HIGHWAYS ACT, 1959. THE CODE OF 1892.

MAKING-UP OF REDCLIFF ROAD (PARTS I
AND II) AND STREET LEADING TO
BALLARD ESTATE.

TENDERS are invited for the ABOVE STREET WORKS, which include a total of approx. 5,000 sq. yd. of Tarmacadam and Carpet Coat Work, 1,700 sq. yd. of Stone Foundation, and 600 lin. yd. of New Kerbing.

Plans may be inspected, and copies of Specification and Bills of Quantities obtained from MR. P. S. BROWNE, F.R.I.C.S., M.I.Mun.E., Engineer and Surveyor, Town Hall, Swanage.

Tenders, in plain sealed envelopes endorsed "Tender for Street Works," must be delivered to the undersigned not later than Noon on SATURDAY, 3rd September, 1960.

The Council does not bind itself to accept the lowest or any Tender and reserves the right to divide the Contract.

W. A. F. BALE,
Clerk of the Council.

Town Hall,
Swanage,
5th August, 1960.

WIGSTON URBAN DISTRICT COUNCIL.

MAJOR ROAD IMPROVEMENT WORKS—
ROUTE B.582.

TENDERS are invited for the CARRYING OUT of MAJOR ROAD IMPROVEMENTS to the CARRIAGEWAY and FOOTPATHS in BUSHLOE END, Wigston, on Route B.582 (approx. 180 lin. yd.), together with certain Accommodation Works which include Demolition and Rebuilding.

Particulars, Specification and Form of Tender may be obtained from the Engineer and Surveyor at the address below on payment of a deposit of £5 5s., which is refundable on receipt of a bona-fide Tender. Cheques should be made payable to Wigston Urban District Council.

Tenders to be delivered to the undersigned, in the envelope provided, not later than 12 Noon on WEDNESDAY, 14th September, 1960.

W. H. GUNNING,
Clerk of the Council.

Council Offices,
Wigston, Leicester.

AMMAN VALLEY JOINT SEWERAGE BOARD.

The above Board is about to undertake a RECONSTRUCTION SCHEME involving the Works of Sewerage DESCRIBED BELOW and the Construction of a new Sewage Disposal Works (Contract No. 2):

CONTRACT NO. 1:
TENDERS are invited, on a Fixed-price Basis, from suitably experienced contractors, for the FIRST OF THE CONTRACTS, which includes the CONSTRUCTION of 6,000 lin. yd. of Sewers varying from 12in. to 42in. in dia., mainly in Open-cut, together with certain Remedial Works, Alterations and Additions to the existing Sewer System, and Substantial River Protection Works.

Copies of the tendering document may be obtained from the Board's Consulting Engineers, C. D. C. BRAINE AND PARTNERS, Jotham's Buildings, 26/27 St. Mary Street, Cardiff, upon deposit of Five Guineas (cheque made payable to the Board), which sum will be returned upon receipt of a bona-fide Tender not subsequently withdrawn.

Drawings may be inspected at the Offices of the Consulting Engineers or at the Offices of the undersigned during business hours.

Tenders, endorsed "Amman Valley Joint Sewerage—Contract No. 1," in plain sealed envelopes not bearing any mark or name indicating the sender, must be delivered to the undersigned not later than Noon on WEDNESDAY, the 21st September, 1960.

The Board does not bind itself to accept the lowest or any Tender.

M. H. EVANS,
Clerk of the Board.

49 College Street,
Ammanford, Carmarthen,
August, 1960.

CONTRACTS

BOROUGH OF MAIDENHEAD.

The COUNCIL invites TENDERS for the FOLLOWING WORKS:—

(a) Cox Green Housing Estate.—Footway Works Stage 1, Section 2.—The Construction of Flag Paved Footways with Cold Asphalt Surfaced Verges (approx. 2,300 sq. yd.) and all incidental works.

(b) Cox Green Housing Estate.—Carriageway Surfacing—Stage 1.—The Removal of the existing Temporary Hoggan Surface and the Provision and Laying by mechanical spreader of approx. 10,400 sq. yd. of Tarmacadam Base and Bituminous Macadam Wearing Courses to Carriageways, and all incidental works.

(c) Shooenhangers Road Lighting—Stage 2. The Erection only of 26 15ft. and Two 25ft. Reinforced Concrete Lighting Columns and the Fixing thereon of Fluorescent Type Lanterns and Auxiliary Gear and all incidental works.

(d) Queen Street (Part) Reconstruction—Section 1.—The Taking up and Re-laying of existing kerb as necessary, the Construction of an 8in. Reinforced Concrete Foundation on a hoggan Sub-base, Provision and Laying of approx. 900 sq. yd. of Rolled Asphalt Base and Wearing Courses to Carriageway, Surface Water Drainage, and all incidental works.

Drawings may be seen at tender documents obtained from the Office of the Borough Engineer and Surveyor, 14 Craufurd Rise, Maidenhead, on payment of a deposit of Two Pounds (£2) for each of the above contracts, which will be refunded upon receipt of a bona-fide Tender and the return of all documents. Tenders, in plain sealed envelopes, endorsed as appropriate, and bearing no mark or indication of the sender, must be delivered to me not later than FRIDAY, 2nd September, 1960.

The Council does not bind itself to accept the lowest or any other Tender.

STANLEY PLATT,
Town Clerk.

Guildhall,
Maidenhead,
Berkshire,
August, 1960.

CITY AND COUNTY OF BRISTOL.

PREPARATION OF HOUSING SITE—HILLBURN
ROAD HOUSING SITE.TENDERS invited for CONSTRUCTION of ROADS
AND SEWERS on ABOVE SITE.

Work includes approx. 1,200 sq. yd. Reinforced Concrete Roads, including Kerbing, and 370 sq. yd. Bituminous Macadam Roads, including Kerbing and Channelling and 220 lin. yd. of 9in. and 50 lin. yd. of 6in. Sewer.

Copies of Conditions of Contract, Specification and Bills of Quantities may be obtained from the CITY ENGINEERING AND PLANNING OFFICER, Cabot House, Deanery Road, Bristol, 1, where Plans can be seen.

Tenders in envelope provided endorsed "Hillburn Road Housing Site," and bearing no mark indicating sender, returned by 10 a.m., 12th SEPTEMBER.

LETCHWORTH URBAN DISTRICT COUNCIL.

FENCING.

TENDERS are invited for the PROVISION and ERECTION of approx. 980 lin. yd. of CHAIN LINK FENCING of various heights together with ancillary Works at VARIOUS SITES within the URBAN DISTRICT.

Documents may be obtained from MR. E. L. JOHNSON, M.I.Mun.E., The Council House, Letchworth, on payment of £2 2s. deposit, refundable on receipt of a bona-fide Tender.

Conditions of Contract and Drawings may be inspected in the office during normal working hours. Tenders, in the envelope provided, should be returned not later than the First Post on FRIDAY, 2nd September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. PLINSTON,
Clerk of the Council.

The Council House,
Letchworth, Herts.,
August, 1960.

WALTON AND WEYBRIDGE URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS.

CARMALT GARDENS, ENDSLEIGH GARDENS,
LOVELACE GARDENS AND MELROSE GARDENS.

TENDERS are invited for the MAKING-UP of the ABOVE STREETS, under the Highways Act, 1959. The work comprises the Surfacing of the existing Hardcore Carriageways, the Construction of Footways with Tarmacadam, the Laying of a 9in. dia. Surface Water Sewer, together with other incidental works.

The Specification, Bills of Quantities and Forms of Tender may be obtained from, and the Plans and Conditions of Contract inspected at, the Office of the Engineer and Surveyor to the Council, Council Offices, Walton-on-Thames.

Tenders are to be enclosed in plain sealed envelopes endorsed "Tender for Private Street Works," and delivered to the undersigned not later than 5 p.m. on TUESDAY, 6th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

EDWARD G. HUBBARD,
Clerk of the Council.

Council Offices,
Walton-on-Thames,
Surrey,
August, 1960.

BARNET URBAN DISTRICT COUNCIL.

RE-LAYING OF PAVED FOOTWAYS.

The Council invite TENDERS for the TAKING-UP and RE-LAYING of approx. 7,500 sq. yd. of PAVED CAST CONCRETE SLAB PAVED FOOTWAYS in VARIOUS ROADS within the District.

Conditions of Contract may be inspected, and Specification of Works, Bill of Quantities and Form of Tender obtained, on application to the Engineer and Surveyor of the Council, Ravenscroft House, Wood Street, Barnet, on any day (Saturdays excepted) between the hours of 9 a.m. and 5 p.m.

Sealed Tenders must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, 24th August, 1960, and marked in the top left-hand corner of the envelope "Re-laying of Paved Footways."

The Council do not bind themselves to accept the lowest or any Tender.

ALFRED S. MAYES,
Clerk of the Council.

Municipal Offices,
Wood Street,
Barnet, Herts.,
3rd August, 1960.

CONTRACTS

CARMARTHENSHIRE COUNTY COUNCIL.
AMMANFORD-LLANDEILO TRUNK ROAD, A.483.

ROAD DIVERSION AT LLANDYBIE.

TENDERS are invited for the construction of approx. 270 lin. yd. of a single 24ft. CARRIAGEWAY at LLANDYBIE, Ammanford.

The carriageway is to be constructed with a base of 12in. thick pre-mixed waterbound and single course bitumen macadam surfacing.

The Roadworks include Earthworks, Surface Water Drainage, Kerbing, Footways, Walls and Fencing and Ancillary works including Demolitions.

Contract Documents can be obtained and plans inspected at the offices of the County Engineer and Surveyor, County Hall, Carmarthen, on payment of a deposit of £2, which is returnable on receipt of a bona-fide tender, which is not subsequently withdrawn.

Tenders (with all Documents) in plain sealed envelope, not bearing any name or mark indicating the sender, and endorsed "Road Diversion, Llandybïe," must be returned to the undersigned not later than 31st AUGUST, 1966.

The County Council does not bind itself to accept the lowest or any Tender.

W. S. THOMAS,
Clerk of the County Council.

County Hall,
Carmarthen,
August, 1966.

COUNTY BOROUGH OF DEWSBURY.

MASS CONCRETE RETAINING WALL—
CARLTON ROAD INFANTS' SCHOOL.

TENDERS are invited for the CONSTRUCTION of a MASS CONCRETE RETAINING WALL, length 88ft., average height 9ft. and average thickness 1ft. 9in.

Plans and Conditions of Contract may be seen at, and Specification, Bill of Quantities and Form of Tender obtained from, the Office of the Borough Engineer and Surveyor, Municipal Buildings, Halifax Road, Dewsbury, on payment of a deposit of Two Guineas, which will be returned on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Retaining Wall—Carlton Road Infants' School," must be delivered to me by Noon on MONDAY, 5th September, 1966.

A. NORMAN JAMES,
Town Clerk.

Town Hall,
Dewsbury,
22nd July, 1966.

BOROUGH OF WARWICK.

LINK ROAD COVENTRY ROAD (A.46) TO
LAKIN ROAD.

TENDERS are invited from experienced contractors for the CONSTRUCTION of the ABOVE ROAD, comprising approx. 450 lin. yd. of 22ft. wide Carriageway and 800 lin. yd. of 9in. and 12in. Surface Water Sewer.

Tender documents may be obtained from the Borough Engineer and Surveyor, 23 Jury Street, Warwick, on payment of a £2 2s. deposit, returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be returned in the envelopes provided, not later than MONDAY, the 29th August, 1966, and the Council do not bind themselves to accept the lowest or any Tender received.

H. B. DOLPHIN, M.C., T.D., M.A. (Oxon),
Town Clerk.

Pageant House,
Warwick.

CITY AND COUNTY OF NORWICH.

LAYING OF 1,312YD. OF 24IN. DIA. C.I.
WATER MAIN ALONG FARROW ROAD AND
COLMAN ROAD, NORWICH.

TENDERS are invited for the LAYING of the ABOVE WATER MAIN. Contractors will be responsible for excavation, laying, jointing and reinstatement of the trenches, which will be partly in the carriageway and partly in grass verges.

Documents obtainable from the ENGINEER AND MANAGER, Water Department, City Hall, Norwich, NOR 01A. Closing date for Tenders, 28th AUGUST.

CITY OF OXFORD.

RE-LAYING SEWERS.

FIXED-PRICE TENDERS are invited for TAKING UP and RE-LAYING EXISTING SEWERS in three parts of the City.

The Work includes 224 lin. yd. of 12in. dia., 454 lin. yd. of 9in. dia. and 26 lin. yd. of 6in. dia. Stoneware Pipes and Associated Manholes.

Contract documents may be obtained from the City Engineer, Town Hall, Oxford.

Tenders are returnable in accordance with detailed instructions contained in the documents not later than 12 Noon on 1st SEPTEMBER, 1966.

HARRY FLOWMAN,
Town Clerk.

EAST BARNET URBAN DISTRICT COUNCIL.

CONTRACT NO. 927.

PUBLIC LIGHTING IMPROVEMENTS, 1960-61.

FIXED-PRICE TENDERS are invited from experienced contractors for the FOLLOWING WORK to be undertaken under one contract—

- (a) (i) The Supply and Erection of 87 25ft. mounting height and 62 15ft. mounting height Concrete Columns and Brackets and 12 15ft. mounting height Cast-Iron Columns and Brackets (all specified patterns).
- (ii) The Erection of approx. 160 15ft. mounting height Metal and 25 15ft. mounting height Concrete Columns and Brackets.

- (b) The Supply and Fitting of 87 Lanterns for 140-Watt Sodium Vapour Lamps and 220 Lanterns for 60-Watt Sodium Vapour Lamps with Control Gear and Lamps (all specified patterns) and the Fitting only of 66 60-Watt Sodium Vapour Lanterns.

- (c) All the necessary Electrical Work in the Wiring (other than jointing and servicing) of the Columns and Lanterns in (a) and (b) above.

Forms of Tender, Specifications and Bills of Quantities may be obtained from the ENGINEER AND SURVEYOR, Town Hall, Station Road, New Barnet, Herts., on payment of a deposit of Two Guineas which will be returned on receipt of a bona-fide Tender.

Tenders, sealed in the envelopes provided, must be received by not later than the 31st AUGUST, 1966. The lowest or any Tender will not necessarily be accepted.

CONTRACTS

CHINGFORD BOROUGH COUNCIL.
ROAD REPAIRS—EPPING WAY.

TENDERS are invited for the CARRYING OUT OF ROAD REPAIRS to and RESURFACING the ABOVE ROAD (Sewardstone Road to Drysdale Avenue).

Conditions of Contract and Forms of Tender can be obtained from the Borough Engineer on receipt of a deposit of £2 2s.

Tenders, in plain sealed envelopes, are to be delivered to the undersigned not later than 12 Noon on MONDAY, 5th September, 1966.

The Council does not bind itself to accept the lowest or any Tender.

C. G. DENNIS,
Town Clerk.

Town Hall,
London, E.4.

CITY AND COUNTY OF BRISTOL.

TENDERS invited for SUPPLY of UNDER-MENTIONED MATERIALS during the 12 months, 1st November 1966, to 31st October, 1967:—

Provision of 5,000 yd. of 4in. and 3in. dia. IRON PIPE WATER MAINS in SIX SECTIONS within the URBAN DISTRICT OF PICKERING, YORKS.

Plans, Specification and Bill of Quantities may be seen at the offices of the Council's Consulting Engineers, MESSRS. ELLIOTT AND BROWN, Stanley House, Pelham Road, Nottingham, and copies of the Key Plan, Specification and Bill of Quantities can be obtained from them on and after Monday, 8th August, 1966, on payment of a deposit of Five Guineas (by cheque payable to the Pickering U.D.C.), which will be refunded on receipt of a bona-fide Tender not afterwards withdrawn and the return of all documents loaned the contractor for the purpose of making-up his Tender within seven days of a notice of a Tender being accepted.

PICKERING URBAN DISTRICT COUNCIL.

WATER MAIN EXTENSIONS.

CONTRACT NO. 2.

TENDERS are invited from responsible and experienced contractors for the PROVISION and LAYING of 5,000 yd. of 4in. and 3in. dia. IRON PIPE WATER MAINS in SIX SECTIONS within the URBAN DISTRICT OF PICKERING, YORKS.

Plans, Specification and Bill of Quantities may be seen at the offices of the Council's Consulting Engineers, MESSRS. ELLIOTT AND BROWN, Stanley House, Pelham Road, Nottingham, and copies of the Key Plan, Specification and Bill of Quantities can be obtained from them on and after Monday, 8th August, 1966, on payment of a deposit of Five Guineas (by cheque payable to the Pickering U.D.C.), which will be refunded on receipt of a bona-fide Tender not afterwards withdrawn and the return of all documents loaned the contractor for the purpose of making-up his Tender within seven days of a notice of a Tender being accepted.

Sealed Tenders, endorsed "Water Main Extension," to be delivered to the undersigned not later than 10 a.m. on SATURDAY, 3rd September, 1966.

The lowest or any Tender will not necessarily be accepted.

J. BROWNBRIDGE,
Clerk of the Council.

Council Offices,
Memorial Hall,
Pickering,
Yorks.

DEARNE URBAN DISTRICT COUNCIL.

ERECTION OF 24 UNITY-TYPE BUNGALOWS AND
COMMUNITY CENTRE AND
WARDEN'S ACCOMMODATION, THURNSCOE.

FIXED-PRICE TENDERS are invited for the ERECTION OF 24 UNITY-TYPE BUNGALOWS and COMMUNITY CENTRE and WARDEN'S ACCOMMODATION.

Copies of the Drawings can be inspected, Specification and Bill of Quantities obtained from the office of the Engineer and Surveyor on payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender.

Tenders, in a plain sealed envelope endorsed "24 Bungalows," to be delivered to the undersigned not later than the 5th SEPTEMBER, 1966.

The Council do not bind themselves to accept the lowest or any Tender.

C. BISHOP,
Clerk of the Council.

Council Offices,
Bolton-on-Deerne,
Near Rotherham,
9th August, 1966.

BEVERLEY RURAL DISTRICT COUNCIL.

LEVEN AND TICKTON SEWERAGE SCHEMES.

TENDERS are invited for the CONSTRUCTION of SEWERS up to 9in. in diameter, MANHOLES, SMALL PUMPING STATIONS and TWO SEPARATE SEWAGE TREATMENT WORKS, in the Parishes of Leven and Tickton.

Contractors wishing to Tender should apply for the documents and Drawings to the Council's Consulting Engineers, JOHN H. HAISTE AND PARTNERS, Belmont House, 20 Wood Lane, Headingley, Leeds, 6, enclosing a deposit cheque value Three Guineas, made payable to the Beverley R.D.C., such deposit to be refunded on receipt of a bona-fide Tender and the return of all the documents and Drawings.

Drawings, showing the location and extent of the works, may be seen at the offices of the Consulting Engineers, or the Council's Engineer and Surveyor, 22 Laigate, Beverley, during the usual office hours.

Tenders, with the Bills of Quantities priced in ink, are to be submitted to the undersigned not later than 12 Noon on FRIDAY, the 16th September, 1966.

The Council do not bind themselves to accept the lowest or any Tender they may receive.

G. H. LEWIS,
Clerk of the Council.

"The Gables,"
65, Laigate,
Beverley.

WHISTON RURAL DISTRICT COUNCIL.

EXTENSION OF CULVERT.

TENDERS are invited from experienced contractors for the LAYING of approximately 380 yd. of 18in. diameter, 350 yd. of 15in. dia. and 50 yd. of 21in. diameter CONCRETE PIPE CULVERT.

Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Council's Consulting Engineers, MESSRS. WARD, ASHCROFT AND PARKMAN, 38 The Temple, Dale Street, Liverpool, 2, upon payment, by cheque only, of Three Guineas deposit, which will be returned upon receipt of a bona-fide Tender and the return of the documents and Drawings supplied.

Sealed Tenders, marked "Extension to Preston-Culvert," are to be delivered to the undersigned not later than 12 Noon on WEDNESDAY, 14th September, 1966.

The Council does not bind itself to accept the lowest or any Tender.

J. R. HENLEY, ESQ.,
Clerk of the Council.

Council Offices,
Whiston,
Prescot,
Lancashire.

CONTRACTS

CAERNARVONSHIRE COUNTY COUNCIL.
TENDERS invited for approx. 5,000 cu. yd. BULK EXCAVATION for ROADS at DYFRYD MYMBYR, CAPAL CURIG.

Forms from County Surveyor, County Offices, Caernarvon, where Plans may be inspected. Tenders, in envelopes marked "Tender—Bulk Excavation," to CLERK OF COUNTY COUNCIL, Caernarvon, by 3rd SEPTEMBER.

BOROUGH OF CHELMSFORD.

SUB-CONTRACT FOR PILING AND GROUND BEAM CONSTRUCTION AT PHASE II DEVELOPMENT, NEW LIVESTOCK MARKET, VICTORIA ROAD, CHELMSFORD.

TENDERS are invited, on a FIXED-PRICE BASIS, i.e., there will be no Variation of Price (Labour and Materials) Clause in the Contract Conditions, for the DESIGN and EXECUTION OF PILING WORK and GROUND BEAM CONSTRUCTION at the NEW LIVESTOCK MARKET, Victoria Road, Chelmsford.

This Sub-contract will comprise Piling at approx. 39 Stanclion Positions and approx. 85 lin. yd. of Reinforced Concrete Ground Beam Construction.

Tender documents may be obtained from the Borough Engineer and Surveyor upon payment of a deposit of £2 2s., which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn and the return of all Tender documents.

Tenders must be received by the undersigned not later than 12 Noon on WEDNESDAY, the 7th September, 1966.

The lowest or any Tender will not necessarily be accepted.

B. A. FRANCIS,
Town Clerk.

Municipal Offices,
Coval Lane,
Chelmsford.

BOROUGH OF HESTON AND ISLEWORTH.

HIGHWAYS ACT, 1959: CODE OF 1962.

MAKING-UP OF IVY LANE, HOUNSLOW.

FIXED-PRICE TENDERS are invited for MAKING-UP IVY LANE, HOUNSLOW, comprising Constructing 580 sq. yd. Macadam Carriageway, 145 lin. yd. Granite Kerbing, 180 sq. yd. Artificial Stone Paving and appurtenant Works.

Conditions of Contract and Drawings may be seen at, and Form of Tender, Specification and Bill of Quantities obtained from, the Borough Engineer's Department, 81a Lampton Road, Hounslow, on deposit of £2 2s. (refundable for bona-fide Tenders submitted and not withdrawn).

Tenders, in envelopes supplied, endorsed "Tender—Ivy Lane," not indicating the sender, must reach me by 10 a.m., 5th SEPTEMBER, 1966. The Council are not bound to accept any Tender.

D. MATHIESON,
Town Clerk.

Town Hall,
Hounslow,
Middlesex.

BOROUGH OF HIGH WYCOMBE.

HARDSTANDINGS ON COUNCIL HOUSING ESTATES.

TENDERS are invited for the CONSTRUCTION of HARDSTANDINGS ON COUNCIL HOUSING ESTATES, AVENUE and HIGHWOOD CRESCENT. The Works involve approx. 1,600 sq. yd. of Hardcore and Hoggins Surfacing and 130 sq. yd. of Concrete Carriageway.

Conditions of Contract and Drawings may be inspected during normal office hours, and Specification, Bills of Quantities and Form of Tender may be obtained on application to the undersigned on the payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Tenders, enclosed in a plain sealed envelope endorsed "Tender for Hardstandings—Council Housing Estates," must be delivered to the undersigned not later than Noon on FRIDAY, 9th September, 1966.

The Council do not bind themselves to accept the lowest or any Tender.

J. A. PARKINSON,
M.A., A.M.I.C.E.,
Borough Engineer and Surveyor.

Municipal Offices,
High Wycombe,
Bucks.

BOROUGH OF WOOD GREEN.

DEMOLITION OF TRENCH SHELTERS.

TENDERS are invited for the DEMOLITION of 10 TRENCH SHELTERS in VARIOUS PARTS of the Borough.

The Drawings may be inspected at, and the Contract documents obtained from, the office of the Borough Engineer, Town Hall, Wood Green, N.22.

Tenders, in plain sealed envelopes, endorsed "Tender for Demolition of Trench Shelters," but bearing no name or mark indicating the sender, must be returned to the undersigned not later than 12 Noon on WEDNESDAY, 14th September, 1966.

G. W. PLATER,
Town Clerk.

Town Hall,
Wood Green, N.22.

CITY OF LEEDS.

HIGHWAYS DEPARTMENT.

The Highways Committee of the Leeds City Council invite TENDERS for—

- (a) Kerbing, Tarmacadam Footpaths, Tarmacadam and Concrete Carriageways, etc., in the following Private Streets:—
BACK MORRITT DRIVE (Part).
MONK BRIDGE TERRACE (Part).
KENNERLEIGH CRESCENT.
KENNERLEIGH AVENUE (Part).
SANDIFORD TERRACE.

- (b) Site Clearance, Excavation, Filling, Base Formation, Foundations, Concrete Haunching, Kerbing, Channelling, Final Surfacing of Carriageways, Construction of Grass Verges and Footpaths, and any other Work on SWINNOW ESTATE, AREA 2—SITE "E."

Forms of Tender and Bills of Quantities may be obtained upon payment of a deposit of One Guinea, which amount will be returned upon receipt of a bona-fide Tender.

Specifications and copies of the documents forming the Contract may be inspected upon application to the Highways Engineer, 155 Kirkstall Road, Leeds, 4.

Tenders will be considered only when submitted sealed in the envelope provided endorsed "Highways Department—Tender for Contractors Works," and not bearing any name or mark indicating the sender.

Tenders must be delivered at the Town Clerk's Office (Committee Department), Room 57, Civic Hall, Leeds, 1, not later than 10 a.m. on THURSDAY, 1st September, 1966.

The lowest or any Tender will not necessarily be accepted.

W. J. HISCOCK,
Highways Engineer.

July, 1966.

CONTRACTS

CITY OF CARDIFF.
TEACHER TRAINING COLLEGE, CYNCOED.
PRECAST CONCRETE WORK.

FIXED PRICE TENDERS are invited for the SUPPLY and FIXING OF PRECAST CONCRETE FLOOR BEAMS, PORTAL FRAMES, GUTTER UNITS, etc., and for some IN-SITU REINFORCED CONCRETE WORK for the Teacher Training College, Cyncoed, Cardiff.

Conditions of Tender, Specification and Drawings may be obtained from the City Surveyor to whom application should be made, accompanied by a deposit of the sum of £2 2s. Cheques should be made payable to the Cardiff Corporation and crossed "Not Negotiable and Co."

The deposit will be refunded on receipt of a bona-fide tender or the return of the Contract documents by the closing date.

Tenders will not be considered unless enclosed in a plain sealed envelope endorsed "Tender for Precast Concrete Work—Teacher Training College, Cyncoed," addressed to the undersigned at the City Hall, Cardiff, and sent by Registered Post so as to be received not later than WEDNESDAY, 14th September, 1960.

The envelope must not bear the name of, or any mark indicating the identity of, the tenderer.

The Council does not bind itself to accept the lowest or any tender.

S. TAPPER-JONES,
Town Clerk.City Hall,
Cardiff.
26th July, 1960.CITY OF CARDIFF.
TEACHER TRAINING COLLEGE, CYNCOED.
STEELWORK.

FIXED PRICE TENDERS are invited for the SUPPLY and ERECTION OF THE STEELWORK for the Teacher Training College, Cyncoed, Cardiff.

Conditions of Tender, Specification and Drawings may be obtained from the City Surveyor to whom application should be made, accompanied by a deposit of the sum of £2 2s. Cheques should be made payable to the Cardiff Corporation and crossed "Not Negotiable and Co."

The deposit will be returned on receipt of a bona-fide tender or the return of the Contract documents by the closing date.

Tenders will not be considered unless enclosed in a plain sealed envelope endorsed "Tender for Steelwork—Teacher Training College, Cyncoed," addressed to the undersigned at the City Hall, Cardiff, and sent by Registered Post so as to be received not later than WEDNESDAY, 14th September, 1960.

The envelope must not bear the name of, or any mark indicating the identity of, the tenderer.

The Council does not bind itself to accept the lowest or any tender.

S. TAPPER-JONES,
Town Clerk.City Hall,
Cardiff.
26th July, 1960.CITY OF CARDIFF.
CITY ARCHITECT'S DEPARTMENT.
TEACHER TRAINING COLLEGE, CYNCOED—
GYMNASIA EQUIPMENT.

FIXED PRICE TENDERS are invited for the SUPPLY DELIVERY AND FIXING OF GYMNASIA EQUIPMENT at the proposed Teacher Training College, Cyncoed, Cardiff.

Conditions of Contract, Drawings and Specification may be inspected at the City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff.

Specification, Drawings and Form of Tender may be obtained from the CITY ARCHITECT to whom application should be made, accompanied by a deposit of £2 2s. Cheques should be made payable to the Cardiff Corporation and crossed "Not negotiable and Co." The deposit will be refunded on receipt of a bona-fide Tender or the return of the contract documents.

Tenders will not be considered unless enclosed in the envelope provided and endorsed "Tender for Teacher Training College, Gymnasia Equipment" addressed to the TOWN CLERK at the City Hall, Cardiff and sent by REGISTERED POST so as to be received not later than the 30th AUGUST, 1960.

The envelope must not bear the name of or any mark indicating the identity of the Tenderer.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.City Hall,
Cardiff.
August, 1960.CITY OF CARDIFF.
CITY ARCHITECT'S DEPARTMENT.
PROPOSED TEACHER TRAINING COLLEGE,
CYNCOED.

FIXED-PRICE TENDERS are invited for the ERECTION OF NEW TEACHER TRAINING COLLEGE for 400 STUDENTS with Residential Accommodation for 300 Students and Staff.

The College is of one-, two- and three-storey construction, 71,367 sq. ft. floor area, and the Residential Accommodation is of two- and three-storey construction, 66,467 sq. ft. floor area. The total value of the works is approximately £550,000.

The whole of the works are to be complete by June, 1962.

The site preparation works are now being carried out under a separate contract.

The Tender documents will be available on the 1st September, 1960.

Conditions of Contract, Drawings and Specification may be inspected at the City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff.

Specification, Bills of Quantities and Form of Tender may be obtained from the City Architect, to whom application should be made, accompanied by a deposit of £2 2s. Cheques should be made payable to the Cardiff Corporation and crossed "Not negotiable and Co." The deposit will be refunded on receipt of a bona-fide Tender or the return of the Contract documents.

Tenders will not be considered unless enclosed in the envelope provided and endorsed "Tender for Teacher Training College, Cyncoed," addressed to the Town Clerk at the City Hall, Cardiff, and sent by Registered Post so as to be received not later than the 29th SEPTEMBER, 1960.

The envelope must not bear the name of or any mark indicating the identity of the tenderer.

Completed Bills of Quantities must not be submitted with the Tender but must be sent, completed in ink, to the City Architect within three days after written request following the opening of Tenders.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.City Hall,
Cardiff.
August, 1960.

CONTRACTS

CITY OF CARDIFF.
CITY ARCHITECT'S DEPARTMENT.
TEACHER TRAINING COLLEGE, CYNCOED.
FIXED ART AND CRAFT ROOM AND LABORATORY
FURNITURE.

FIXED-PRICE TENDERS are invited for the SUPPLY, DELIVERY AND ASSEMBLY IN POSITION OF FIXED ART AND CRAFT ROOM AND LABORATORY FURNITURE, etc., at the proposed TEACHER TRAINING COLLEGE, CYNCOED, Cardiff.

Conditions of Contract, Drawings and Specification may be inspected at the City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff.

Specification, Drawings and Form of Tender may be obtained from the City Architect, to whom application should be made, accompanied by a deposit of £2 2s. Cheques should be made payable to the Cardiff Corporation and crossed "Not negotiable and Co." The deposit will be refunded on receipt of a bona-fide Tender or the return of the Contract documents.

Tenders will not be considered unless enclosed in the envelope provided and endorsed "Tender for Teacher Training College, Laboratory Furniture," addressed to the Town Clerk at the City Hall, Cardiff, and sent by Registered Post so as to be received not later than the 30th AUGUST, 1960.

The envelope must not bear the name of or any mark indicating the identity of the tenderer.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.City Hall,
Cardiff.
August, 1960.CITY OF CARDIFF.
CITY ARCHITECT'S DEPARTMENT.
TENDERS FOR THE ERECTION OF 194 DWELLINGS
AT RUMNEY, BUTETOWN AND ELY NORTH.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION OF THE FOLLOWING DWELLINGS IN THREE CONTRACTS:

GROUP 1—105 Dwellings—Manorbier Crescent Extension, Rumney, comprising:

8 One-bedroom Bungalows in Two Blocks.

10 Three-bedroom Semi-detached Houses.

5 Three-bedroom Terrace Houses in One Block.

72 One-bedroom Flats in 5 Three-storey Blocks.

12 One- and Two-bedroom Flats in One Block.

GROUP 2—39 Dwellings—Loundoun Square, Butetown, comprising:

27 One-bedroom Flats in 3 Three-storey Blocks.

12 Three- and Four-bedroom Four-storey Maisonettes in One Block.

GROUP 3—50 Dwellings, 1 Shop and 6 Garages at Green Island, Ely. The deposit will be refunded on receipt of a bona-fide Tender or the return of the contract documents.

46 Two-storey One-bedroom Flats.

3 Three-bedroom Houses.

1 Shop with Three-bedroom Living Accommodation.

6 Brick Garages.

Contractors may tender for one or more Contracts, but each Contract must be tendered for separately.

Conditions of Contract, Drawings and Specifications may be inspected at the City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff.

Drawings, Bills of Quantities and Form of Tender may be obtained from the City Architect, to whom application should be made, accompanied by a deposit of £2 2s. for each Contract. Cheques should be made payable to the Cardiff Corporation and crossed "Not Negotiable and Co." The deposit will be refunded on receipt of a bona-fide Tender or the return of the Contract documents.

Tenders will not be considered unless enclosed in the envelope provided and endorsed "Tender for Dwellings at ——" (as the case may be), addressed to the Town Clerk at the City Hall, Cardiff, and sent by Registered Post so as to be received not later than the 13th SEPTEMBER, 1960.

The envelope must not bear the name of, or any mark indicating the identity of the tenderer.

Completed Bills of Quantities must not be submitted with the Tender, but must be sent, completed in ink, so as to be in the hands of the City Architect within three days after written request following the opening of Tenders.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.City Hall,
Cardiff.
August, 1960.MABLETHORPE AND SUTTON URBAN
DISTRICT COUNCIL.
LAVATORY BLOCKS.

TENDERS are invited for the CONSTRUCTION OF TWO LAVATORY BLOCKS at the BOHEMIA CARAVAN PARK at Sutton-on-Sea.

Plans may be inspected, and Bills of Quantities may be obtained from the Council Offices, Mablethorpe, on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Bohemia Lavatories," must be received by the undersigned not later than Noon on the 7th SEPTEMBER, 1960.

The Council does not bind itself to accept the lowest or any Tender received.

R. VINCENT LEWIS,
Clerk of the Council.City Hall,
Cardiff.
August, 1960.HUNTINGDON RURAL DISTRICT
COUNCIL.
WATER MAINS AT GREAT STUKELEY.

TENDERS are invited from suitably experienced contractors for the LAYING AND JOINTING OF APPROX. 300yd. 3in. dia. ASBESTOS-CEMENT WATER MAINS with Screwed Joints, on a HOUSING DEVELOPMENT SITE, together with ancillary works.

Drawings may be seen during office hours at the Offices of the Consulting Engineers, MESSRS. PICK, EVERARD, KEAY AND GIMSON, 6 Millstone Lane, Leicester, from whom the Specification and Bill of Quantities may be obtained on payment of a deposit of Three Guineas, which will be returned on receipt of a bona-fide Tender.

Tenders, on the loose form and in the envelope provided, should be delivered to the undersigned not later than 10 o'clock on the afternoon of WEDNESDAY, the 14th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. MIDWOOD,
Clerk of the Council.Council Offices,
Montagu House,
Huntingdon.
10th August, 1960.

CONTRACTS

CITY OF CARDIFF.
CITY ARCHITECT'S DEPARTMENT.
ERECTION OF 219 LOCK-UP GARAGES AND
SITEWORKS ON VARIOUS SITES.

FIXED-PRICE TENDERS are invited for the ERECTION of a total of 219 LOCK-UP GARAGES and Siteworks in EIGHT CONTRACTS, as FOLLOWS:

CONTRACT 1—48 Garages—Heol Treiai, Ely South.

CONTRACT 2—6 Garages—Blue House Road, Llanishen.

27 Garages—Whitebarn Road, Llanishen.

CONTRACT 3—14 Garages—Llandudno Road, Rumney.

CONTRACT 4—14 Garages—Monitor Road, Llanrumney.

18 Garages—Burnham Ave., Llanrumney.

23 Garages—Porlock Road, Llanrumney.

CONTRACT 5—10 Garages—Sudcroft Street, Eekw.

CONTRACT 6—14 Garages—Lydstep Crescent, Gabalfa.

CONTRACT 7—24 Garages—Hirst Crescent, Fairwater.

CONTRACT 8—21 Garages—Deere, Wilson Roads, Ely North.

Contractors may tender for one or more Contracts, but each Contract must be tendered for separately.

Conditions of Contract, Drawings and Specification may be inspected at the City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff.

Specification, Drawings and Form of Tender may be obtained from the City Architect, to whom application should be made, accompanied by a deposit of £2 2s. in respect of each Contract. Cheques should be made payable to the Cardiff Corporation and crossed "Not Negotiable and Co." The deposit will be refunded on receipt of a bona-fide Tender or the return of the Contract documents.

Tenders will not be considered unless enclosed in the envelope provided and endorsed "Tender for ——" (as the case may be), addressed to the Town Clerk at the City Hall, Cardiff, and sent by Registered Post so as to be received not later than the 13th SEPTEMBER, 1960.

The envelope must not bear the name of, or any mark indicating the identity of the tenderer.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.City Hall,
Cardiff.
August, 1960.HUCKNALL URBAN DISTRICT COUNCIL.
WELBECK HOUSING ESTATE.

TENDERS are invited for the CONSTRUCTION OF ROADS AND SEWERS FOR PHASE III of the ABOVE-MENTIONED ESTATE. The scheme consists of approx. 8,150 sq. yd. of Carriageway, 2,900 lin. yd. of Kerbs and Precast Channel, and 1,850 lin. yd. of Concrete and Glazed Stoneware Sewers, up to 21in. dia., including Manholes and ancillary Works.

Form of Tender, Specification and Bills of Quantities may be obtained from, and Drawings and Conditions of Contract may be inspected at, the office of the Engineer and Surveyor, Watnall Road, Hucknall, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender and the return of the documents.

Tenders, in plain sealed envelopes endorsed "Roads and Sewers—Welbeck Estate," but not bearing any name or mark indicating the sender, must be delivered to the undersigned not later than 5 p.m. on MONDAY, the 5th September, 1960.

The Council does not bind itself to accept the lowest or any Tender.

H. SHARP,
Clerk of the Council.Council Offices,
Hucknall,
Nottingham.
8th August, 1960.ALDRIDGE URBAN DISTRICT COUNCIL.
EASTERN AREA SEWERAGE.

CONTRACT NO. 2.

TENDERS are invited for the CONSTRUCTION OF about 500 lin. yd. of GLAZED STONWARE PIPE SEWERS, 6in. and 9in. in dia., MANHOLES, a SEWAGE PUMPING STATION with 9in. dia. Spun-iron Rising Main about 520 lin. yd. in length, and incidental works, in accordance with the Drawings, Specification and Bills of Quantities prepared by the Engineers, MESSRS. A. H. S. WATERS AND PARTNERS, of 25 Temple Row, Birmingham.

The Drawings may be seen at, and the Conditions of Contract, Specification, Bills of Quantities and Form of Tender may be obtained from the Offices of the undersigned, or of the Engineers, on or after 29th AUGUST, 1960, on payment of a deposit of Five Guineas, which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Sealed Tenders, on the form supplied, and in the endorsed envelope provided, are to be delivered to me at my Offices not later than Noon on 23rd SEPTEMBER, 1960.

The Council does not undertake to accept the lowest or any Tender.

H. G. G. NICHOLS,
Clerk of the Council.The Council House,
Aldridge, Staffs.PONTYPOOL URBAN DISTRICT
COUNCIL.
PROPOSED WIDENING AND IMPROVEMENT—
THE HIGHWAY, NEW INN, PANTEG CANAL
BRIDGE—PONTYPOOL ROAD STATION BRIDGE,
ROUTE A.4042.

TENDERS are invited for WIDENING THE ABOVE ROAD for a length of approx. 355 lin. yd. The works include Fencing, Drainage, Earthworks, Retaining Walls, Kerbing, Carriageway and Footway Construction.

Form of Tender, Conditions of Contract, Specification, Bill of Quantities and Plans may be obtained from the undersigned, on deposit of a cheque for Three Guineas, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents.

The Tender should be submitted in a sealed envelope endorsed "Coed-y-Canddo Improvement," but without other marks of identification, and must be in the hands of the undersigned not later than 12th SEPTEMBER, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

(Signed) H. COOK,
Clerk of the Council.Municipal Offices,
Pontypool, Mon.
10th August, 1960.

CONTRACTS

DERBYSHIRE COUNTY COUNCIL.

BRIDGES AND HIGHWAYS DEPARTMENT.

THE HIGHWAY ACT, 1959 (PART IX).

PRIVATE STREET WORKS.

NETHERFIELD ROAD, CHAPEL-EN-LE-FRITH.

TENDERS are invited for LEVELLING, PAVING, KERBING, DRAINING AND SURFACING THE ABOVE STREET.

The works include some 400yd. Surface Water Drainage, 540yd. Kerbing, and 2,500 super. yd. Coated Macadam Surfacing.

Plans and Conditions of Contract may be seen, and Bills of Quantities, Form of Tender and Specification obtained from the County Surveyor, County Offices, Matlock, Derbyshire, on payment of a deposit of £2, cheques payable to Derbyshire County Council. Deposit will be refunded to bona-fide tenderers on signing the Contract or notification of non-acceptance.

Tenders, in plain sealed envelopes endorsed "Private Street Works—B, and C," to be delivered to the undersigned by 30th AUGUST, 1960.

The County Council does not bind itself to accept the lowest or any Tender.

D. G. GILMAN.

Clerk of the County Council.

COUNTY BOROUGH OF SOUTHPORT.

PRIVATE STREET WORKS.

TENDERS are invited for the MAKING-UP of BAMBER GARDENS, comprising approximately 650 super. yd.; Kerbing, 220 lin. yd.; Flagging, 270 super yd. together with other incidental works.

Forms of Tender, Specification and Bill of Quantities may be obtained from the Borough Engineer on payment of £2 2s. deposit (cheques to be made payable to Southport Corporation).

Plans may be inspected at the Borough Engineer's Department, Town Hall, Southport.

Tenders to be received by the TOWN CLERK, Town Hall, Southport, not later than First Post, TUESDAY, 30th August.

CITY OF MANCHESTER.

TENDERS are invited for the SUPPLY of the FOLLOWING ITEMS of STREET LIGHTING EQUIPMENT during the period 1st January to 31st December, 1961:

- Cable.
- Concrete Standards.
- Flashing Beacon Globes.
- Fluorescent External Lighting Fittings for Road Signs.
- Glass Globes.
- Lanterns.
- Mantles.
- Steel Standards.
- Time Switches.
- Traffic Bollards.

Tender forms, returnable by 6th SEPTEMBER, 1960, from the CITY SURVEYOR, Town Hall, Manchester, 2.

IRLAM URBAN DISTRICT COUNCIL.

PUBLIC CONVENIENCES, LIVERPOOL ROAD, IRLAM.

TENDERS are invited for the CONSTRUCTION of PUBLIC CONVENIENCES at Liverpool Road, Irlam. Specification, Bill of Quantities and Form of Tender may be obtained from the Engineer and Surveyor, Council Offices, Irlam, on payment of a deposit of One Guinea, returnable upon receipt of a bona-fide Tender.

Sealed Tenders, in the envelopes provided, must reach the CLERK OF THE COUNCIL, Council Offices, Irlam, not later than 3rd SEPTEMBER, 1960.

The Council does not bind itself to accept the lowest or any Tender.

URBAN DISTRICT COUNCIL OF RAYLEIGH.

HIGHWAYS ACT, 1959.

MAKING-UP of the following:

- (a) WARWICK ROAD (Part).
- (b) ALBANY ROAD.
- (c) LOUISE ROAD.

Tenders are invited for the Making-up of the Above Private Streets, involving the Construction of approx. (a) 465 lin. yd., (b) 320 lin. yd., and (c) 150 lin. yd. of 20ft. Lean Mix Concrete Carriageway, Surfaced with Bitumen Macadam, 5ft. Lean Mix Concrete Footway, Surfaced with Fine Cold Asphalt and Seeded Grass, Verges together with incidental Works of Kerbing and Surface Water Sewerage.

The Contract Drawings and General Conditions of Contract may be inspected at, and copies of the Specification, Bills of Quantities and Form of Tender obtained from, the offices of the Engineer and Surveyor, Council Offices, Hockley Road, Rayleigh, Essex.

Completed Tenders, sealed in the envelope provided, must be delivered to the undersigned not later than Noon on THURSDAY, 1st September, 1960.

The Council does not bind itself to accept the lowest or any Tender.

C. E. FITZGERALD.

Clerk of the Council.

Council Offices, Hockley Road, Rayleigh, Essex, 4th August, 1960.

MAGOR AND ST. MELLONS RURAL DISTRICT COUNCIL.

CWM LANE, ROGERSTONE, SEWERAGE SCHEME.

TENDERS are invited from experienced contractors for the CONSTRUCTION of the ABOVE SCHEME. The Scheme consists of Providing and Laying approx. 733yd. of 6in. dia. G.S.W. Sewers in Road and Private Lands; 200yd. of 4in. dia. C.I. Rising Main, together with House Connections, Cesspit Conversions, and the Construction of an Ejector Station, and other ancillary work.

Contract documents may be obtained from the Consulting Engineers, THOMAS AND MORGAN AND PARTNERS, 23 Gelliwastad Road, Pontypridd, Glam., on payment of a deposit of £3 3s., to be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

Plans may be inspected at the Council Offices, or the Consulting Engineers' Offices, at any time during normal office hours.

Tenders must be delivered to the undersigned, in a plain sealed envelope endorsed "Cwm Lane, Rogerstone, Sewerage Scheme," not later than 12 Noon, MONDAY, 12th September, 1960.

The Council does not undertake to accept the lowest or any Tender.

H. E. M. KEENE.

Clerk of the Council.

Council Offices, Baneswell, Newdort, Mon. 8th August, 1960

CONTRACTS

BOROUGH OF DAGENHAM.

ROMFORD ROAD (B.174) RECONSTRUCTION.

TENDERS are invited for the RECONSTRUCTION of CARRIAGEWAY in REINFORCED CONCRETE and SURFACING OF FOOTPATHS in ROMFORD ROAD, between NORTH BOUNDARY of GOLF CLUB HOUSE and WHALEBONE LANE, the Works consisting of Laying approx. 6,500 sq. yd. of 10in. Reinforced Concrete, 1,200 sq. yd. Macadam Footways, 500 lin. yd. 12in. Surface Water Sewer, and ancillary Works.

Plans and General Conditions of Contract may be inspected at the office of the Borough Engineer and Surveyor during normal working hours, and Specification and Bills of Quantities obtained, on deposit of £2 2s., returnable on receipt of a bona-fide Tender.

Tenders must be returned to the undersigned in the envelope provided, bearing no external indication of the sender's name, by 10th SEPTEMBER, 1960.

KEITH LAUDER.

Town Clerk.

Civic Centre, Dagenham.

BOROUGH OF HALESOWEN.

DEMOLITION OF 37-59 AND 63-68 NEW ENGLAND, BLACKHEATH.

TENDERS are invited for the DEMOLITION of the ABOVE PROPERTIES and CLEARANCE of the SITE. All materials become the property of the contractor. Particulars may be obtained from the Borough Engineer and Surveyor, Council House, Halesowen, on payment of £2 2s. deposit, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, sealed in the official envelope provided, must be delivered to me not later than 12 Noon on SATURDAY, 3rd September, 1960.

J. B. MCCOKE.

Town Clerk.

Council House, Halesowen.

8th August, 1960.

BOROUGH OF HESTON AND ISLEWORTH.

BELL ROAD CAR PARK.

TENDERS are invited for CONSTRUCTING in HARD-CORE and BITUMINOUS SURFACING the ABOVE AREA, approx. 3,400 sq. yd., including Drainage, Walling, Fencing and Lighting.

Conditions of Contract may be seen at and Form of Tender obtained from Borough Engineer's Department, 88 Lampton Road, Hounslow, on deposit of £2 2s. (returnable for bona-fide tenders submitted and not subsequently withdrawn).

Tenders in endorsed envelopes supplied not indicating the Sender to reach me by 10 a.m. on 8th SEPTEMBER, 1960.

The Council are not bound to accept any tender.

D. MATHIESON.

Town Clerk.

Town Hall, Hounslow, Middx.

CITY OF YORK.

WELFARE COMMITTEE.

ROADWORKS AT THE GRANGE, HUNTINGTON ROAD.

TENDERS are invited for the CONSTRUCTION of approximately 880 sq. yd. of CONCRETE YARDS and PATHS, and incidental works.

The General Conditions of Contract and Drawings may be inspected at, and the Specification, Bill of Quantities and Form of Tender obtained from the office of the undersigned on deposit of £2 (cheque to be crossed and made payable to York Corporation), which will be refunded on receipt of a bona-fide tender.

The completed Form of Tender shall be delivered to the undersigned in the official envelope provided, endorsed "Roadworks, The Grange," not later than Noon on TUESDAY, 6th September, 1960.

The lowest or any tender will not necessarily be accepted.

CHAS. J. MINTER.

City Engineer, Surveyor and Planning Officer.

7 St. Leonard's Place, York.

LEIGHTON BUZZARD URBAN DISTRICT COUNCIL.

REGENT STREET, LEIGHTON BUZZARD.

TENDERS are invited for the FOLLOWING WORKS, comprising Realignment and Reconstruction of Road and Footpaths (approx. 960 super. yd.), including Provision and Laying of 560 lin. yd. new Kerb and Channel, and necessary Surface Water Drainage, and other appurtenant works.

Specifications, Bills of Quantities and Forms of Tender may be obtained from the Engineer and Surveyor, Council Offices, Leighton Buzzard.

Applications should be accompanied by a deposit of £2 2s., which will be returned upon receipt of a bona-fide Tender. Conditions of Contract (I.C.E.) may be inspected during normal working hours.

Tenders, in plain sealed envelopes endorsed "Albany Road," must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, 7th September, 1960.

The Council does not bind itself to accept the lowest or any Tender.

D. L. OVERTON.

Clerk of the Council.

Council Offices, Leighton Buzzard.

8th August, 1960.

CUMBERLAND RIVER BOARD.

RIVER PETERIL IMPROVEMENT SCHEME (CARLISLE).

DIVERSION OF SEWERS AND CONSTRUCTION OF NEW FOOTBRIDGE.

TENDERS are invited for the DIVERSION of approx. 390yd. of 18in. dia. 21in. dia. 15in. dia. and 12in. dia. SEWERS, and for the CONSTRUCTION of a CONCRETE FOOTBRIDGE, using Precast Prestressed Beams and Deck Units.

Plans, Specifications, Bills of Quantities, Conditions of Contract and Forms of Tender may be obtained on application to MR. A. J. COLLINS, B.Sc., A.M.I.C.E., Engineer to the Board, River Board House, London Road, Carlisle, on payment of a deposit of £2 2s., which will be returned on the receipt of a bona-fide Tender.

Tenders, enclosed in a plain sealed envelope bearing no name or mark to indicate the sender and endorsed "Tender for Sewers and Footbridge," must be forwarded to the undersigned not later than Noon on FRIDAY, 16th September, 1960.

RALPH BIRKETT.

Clerk and Financial Officer.

River Board House, London Road, Carlisle.

9th August, 1960.

CONTRACTS

MERIONETH COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

The County Council invite TENDERS for ONE or TWO DIESEL COMPRESSORS (100-150 c.f.m.), Mounted on Pneumatic Tyres.

An allowance is to be made for one or two Broomwade Compressors, Petrol Engines, 1948 and 1949 Models, owned by the Council and offered in part exchange. These Compressors may be inspected by arrangement with the County Surveyor.

Tenders, accompanied by Makers' Specification and giving time of delivery in plain sealed envelopes, should reach the COUNTY CLERK, County Offices, Dolgellau, not later than MONDAY, the 29th August, 1960.

METROPOLITAN BOROUGH OF HACKNEY.

The above Council are at present engaged in an extensive programme arising from the CONVERSION into SELF-CONTAINED FLATS of houses too large for single family occupation.

Inquiries are invited from building contractors in the Metropolitan area who are in a position to accept this type of work during the next few months. Particulars may be obtained from the HOUSING MANAGER, 219 Mare Street, E.8.

BOROUGH OF SUTTON AND CHEAM.

SURFACE WATER AND SOIL SEWERS—HIGH STREET, SUTTON.

TENDERS are invited for the LAYING of approx. 418 lin. yd. of 39in. and 36in. dia. CONCRETE PIPES with 12in. dia. GLAZED STONEWARE PIPES under the Concrete Pipes, together with an additional 43 lin. yd. of 12in. PIPE.

Copies of the Contract documents may be obtained from the Borough Engineer and Surveyor, Municipal Offices, High Street, Sutton, Surrey, on payment of £2 2s. deposit, which will be refunded on receipt of a bona-fide Tender and the return of all documents.

Tenders, in the envelope provided, endorsed "Surface Water and Soil Sewers, High Street, Sutton," bearing no indication of the name of the sender, are to be delivered to the undersigned not later than Noon on FRIDAY, the 9th September, 1960.

The Council does not bind itself to accept the lowest or any Tender.

A. PRIESTLEY.

Town Clerk.

Municipal Offices, Sutton, Surrey.

BOROUGH OF PWLLHELL.

TO BUILDING CONTRACTORS.

(RE-ISSUE OF ADVERTISEMENT FOR TENDERS.)

TENDERS are invited for the ERECTION and COMPLETION of 25 HOUSES, together with Site and Road Works, at Ffordd Y Mela, between South Beach and West End, Pwllheli.

Tender documents, consisting of Form of Tender, Bills of Quantities, Plans and Specification, may be obtained from the undersigned on payment of £4 4s., which will only be returned on receipt of bona-fide Tender and the return of all Tender documents.

Tenders must be received by the undersigned on or before the 17th SEPTEMBER, 1960, in sealed envelope provided with the Tender documents.

CYRIL C. DAVIES.

Town Clerk.

Municipal Buildings, Pwllheli.

9th August, 1960.

CITY OF OXFORD.

LANDSCAPING OF LONDON ROAD IMPROVEMENT.

TENDERS are invited for the ABOVE WORKS, which consist of Turfing and Seeding, Tree, Shrub and Herbaceous Planting, and the Restoration of Private Gardens, over a length of 700yd. of dual carriageway affected by the improvements.

Interested contractors who have experience in this class of work may obtain copies of the Contract documents from the City Engineer, Town Hall, Oxford. Preference will be given to contractors within a 50-mile radius of Oxford.

Tenders are returnable by 12th SEPTEMBER, 1960, and in accordance with detailed instructions contained in the documents.

HARRY PLOWMAN.

Town Clerk.

5th August, 1960.

URBAN DISTRICT COUNCIL OF MERTON AND MORDEN.

ROADWORKS—KINGSTON ROAD AND WEST BARNES LANE.

TENDERS are invited for the RECONSTRUCTION of PART of the CARRIAGEWAY in (a) Kingston Road and (b) West Barnes Lane, in LEAN MIX CONCRETE with a HOT ROLLED ASPHALT SURFACE, the total area concerned being about 4,000 sq. ft.

Forms of Tender, Specification and Bill of Quantities may be obtained from the Engineer and Surveyor, Morden Hall, London, S.W.19.

Sealed Tenders in the envelope provided, bearing no name or mark indicating the sender, to be delivered to me not later than 10 a.m. on MONDAY, 5th SEPTEMBER, 1960.

SYDNEY ASTIN.

Clerk of the Council.

CHISLEHURST AND SIDCUP URBAN DISTRICT COUNCIL.

NEW GREENHOUSE, THE GLADE.

Specialist firms desiring to TENDER for the ERECTION of NEW GREENHOUSE, approximately 40ft. by 20ft., on existing Brick Base, should send their names to ENGINEER AND SURVEYOR, Manor House, Sidcup, by 29th AUGUST, 1960.

EBBW VALE URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

RASSAU HOUSING SITE—CONSTRUCTION OF ROADS, SEWERS, FOOTWAYS, ETC.

AMENDED CLOSING DATE.

The date for the receipt of TENDERS is now EXTENDED to 12 Noon, MONDAY, 29th August, 1960. The remaining details are as previously advertised.

HOWARD J. WILLIAMS.

Clerk of the Council.

District Council Offices, The Walk, Ebbw Vale, Mon.

9th August, 1960.

CONTRACTS

NOTTINGHAMSHIRE COUNTY COUNCIL.
HEALTH COMMITTEE.

TENDERS are invited for the SUPPLY of the FOLLOWING SUPPLIES and ARTICLES to various Child Welfare Centres, Day Nurseries, School Clinics, Ambulance Stations and other Premises within the County for a period of 12 months commencing 1st November, 1960:

- Medical and Sundry Supplies.
- Surgical Appliances and Instruments.
- Nursing Equipment and Appliances, including Commodes and Wheel Chairs.
- Rubber Articles.
- Surgical Dressings and Plasters.
- Maternity Outfits and Pads.
- Cod Liver Oil Products.

Further particulars, Tender Forms and Conditions of Contract are obtainable from the County Medical Officer, Shire Hall, Nottingham. Completed Tenders, in the envelopes to be supplied, should be returned to the undersigned by FRIDAY, 9th September, 1960.

A. R. DAVIS,
Clerk of the County Council.

County Hall,
West Bridgford,
Nottingham.

HOLLAND COUNTY COUNCIL,
LINCOLNSHIRE.

BOSTON COLLEGE OF FURTHER EDUCATION.

TENDERS are invited from building or civil engineering contractors for the DIVERSION of an EXISTING MAIN SEWER, involving approx. 630ft. run of new 48in. dia. Sewer (work to be done during September and October); New Access Road Temporary and Permanent Fencing, Part Stripping of the Site and Attendance on a Piling Sub-contractor.

Form of Tender, Bills of Quantities and Drawings may be obtained from the County Architect, County Hall, Boston, Lincs., and Tenders must be submitted to the undersigned by 10 a.m. on 12th SEPTEMBER, 1960.

H. A. H. WALTER,
Clerk of the County Council.

County Hall,
Boston,
Lincs.

SURREY COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

TENDERS are invited for DEMOLITION of TERRIERS BRIDGE, MERTON HIGH STREET (A.24) S.W.19, and its RECONSTRUCTION in STEEL and CONCRETE, together with ancillary Roadworks and Improvement Works to the RIVER WANDLE.

Particulars and Forms of Tender, returnable by 20th SEPTEMBER, 1960, obtainable from COUNTY ENGINEER, County Hall, Kingston-upon-Thames.

BOROUGH OF SWINTON AND
PENDLEBURY.

TENDERS are invited from suitable contractors for the ERECTION and COMPLETION of 70 HOUSES and SIX BLOCKS of FOUR FLATS, together with the CONSTRUCTION of ROADS and SEWERS, at the BEEHIVE ESTATE (Section 3), CLIFTON, LANCASHIRE.

Bills of Quantities and Forms of Tender will be available from the 1st September, 1960, and may be obtained from the BOROUGH ENGINEER AND SURVEYOR, Town Hall, Swinton, Lancs. Closing date for receipt of Tenders, 3rd OCTOBER, 1960.

BOROUGH OF TOTTENHAM.

DISPLAY BOARDING IN SCHOOLS.

TENDERS are invited for the FOLLOWING WORK:-

- Supply and Delivery to Various Schools in the Borough of Sundeala Boarding.
- Supply and Fixing of Sundeala Boarding for Display Purposes.

Conditions of Contract, Specification and Form of Tender are obtainable from the Borough Engineer and Surveyor, Town Hall, Tottenham, N.15.

Tenders should be delivered in the envelopes provided to the undersigned not later than 10 a.m. on THURSDAY, 1st September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

M. LINDSAY TAYLOR,
Town Clerk.

Town Hall,
Tottenham, N.15.

BOROUGH OF WEMBLEY.

COLLECTION AND DISPOSAL OF BOILER ASHES.

THE WEMBLEY BOROUGH COUNCIL invite TENDERS for the WEEKLY COLLECTION and DISPOSAL of BOILER ASHES from various non-domestic premises within the Borough during the period 1st October, 1960, to 31st May, 1961.

The approx. output of ashes from these premises during the period is 48 tons per week.

Further details and Forms of Tender may be obtained from, and Conditions of Contract may be inspected at, the Offices of the Director of Public Cleansing, Alorton Lane, Wembley, Middlesex.

Tenders must be returned duly completed not later than Noon on SATURDAY, 3rd September, 1960, in a plain sealed envelope endorsed "Tender for Collection and Disposal of Boiler Ashes," and addressed to the undersigned at the Town Hall, Wembley.

The Council do not bind themselves to accept the lowest or any Tender.

N. CUMPTSY,
Town Clerk.

Town Hall,
Wembley, Middx.
8th August, 1960.

BOROUGH OF HALESOWEN.

PRIVATE STREET WORKS.

COBHAM ROAD, HALESOWEN.

The Council invite Tenders for the MAKING-UP of COBHAM ROAD, Halesowen, including 230 lin. yd. of Precast Concrete Kerb, 870 sq. yd. of Pitched Carriageway, 440 sq. yd. of Tarmacadam Footway, and other incidental Works.

Drawings and General Conditions of Contract may be inspected, and Form of Tender, Bill of Quantities and Specification obtained, on application to the Borough Engineer and Surveyor, Council House, Halesowen, on the payment of £2 2s. deposit, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, sealed in the official envelope provided, must be delivered to me not later than 12 Noon on SATURDAY, 27th August, 1960.

J. B. MCCOKE,
Town Clerk.

Council House,
Halesowen,
8th August, 1960.

CONTRACTS

HERTFORDSHIRE COUNTY COUNCIL.

TENDERS are invited for the FOLLOWING CONTRACTS:-

- (1) SHIRE LANE, CHORLEYWOOD.
Provision of Footpath from Chalfont Lane to Heronsgate Road.
- (2) TIPPENDELL LANE, ST. ALBANS.
Road Improvement Works from the junction of Park Street Lane to junction with Penn Road.

The Works in (1) above comprise Site Clearance, 500 cu. yd. Excavation, 180 lin. yd. Kerbing, 250 sq. yd. Carriageway Construction, 350 sq. yd. Footpath Construction, and 100 sq. yd. 9in. Brick Wall in Second-hand Stock Brick.

The Works in (2) above comprise Site Clearance, 1,200 cu. yd. Excavation, 830 yd. of Kerbing and Channelling, 2,600 sq. yd. Carriageway Construction, comprising of 12in. Cement Concrete, 12in. Kerbs and Base Course and Asphalt Wearing Course, 270 lin. yd. of 15in. to 6in. dia. Pipes, 375 sq. yd. Footpath Construction, 580 lin. yd. of Concrete Post and Chain Link Fencing, and 50 lin. yd. of Close Boarded Fencing.

Tender documents may be obtained from, and Drawings inspected at, the office of the County Surveyor, County Hall, Hertford, on or after 22nd August, 1960. Tenders are to be returned to the CLERK OF THE COUNTY COUNCIL not later than 10 a.m. on WEDNESDAY, 14th September, 1960.

The County Council are not bound to accept the lowest or any Tender.

COUNTY BOROUGH OF SOUTHAMPTON.

PRIVATE STREET WORKS.

COATES ROAD (PARTS)—CONTRACT PSW77.
(Approx. length 500yd.)

TENDERS are invited for the MAKING-UP of the ABOVE ROAD with Tarmacadam Footways, Hardcore and Tarmacadam Carriageway, Concrete Kerbs and Channels, Surface Water Drainage, and incidental works.

Applications for Contract documents to be made before 29th AUGUST, 1960, to the BOROUGH ENGINEER AND SURVEYOR, Civic Centre, Southampton.

Documents will be forwarded thereafter and when ready. Contractors will be informed of the closing dates for submitting completed Tenders.

The Council do not bind themselves to accept the lowest or any Tender.

URBAN DISTRICT COUNCIL OF
RAYLEIGH.

TENDERS FOR CHAIN LINK FENCING.

TENDERS are invited for the PROVISION and ERECTION of approx. 655 lin. yd. of 6ft. high GALVANISED CHAIN LINK FENCING on Reinforced Concrete Posts at the COUNCIL'S DEPOT, CASTLE ROAD, Rayleigh, Essex.

The Conditions of Contract, Bills of Quantities and Form of Tender may be obtained from, and Contract Drawings inspected at, the Office of the Engineer and Surveyor, Council Offices, Hockley Road, Rayleigh.

Completed Tenders must be returned to the undersigned before Noon on THURSDAY, 1st September, 1960, in the envelopes provided.

The Council does not bind itself to accept the lowest or any Tender.

C. E. FITZGERALD,
Clerk of the Council.

Council Offices,
Hockley Road,
Rayleigh, Essex.
10th August, 1960.

HORNCHURCH URBAN DISTRICT
COUNCIL.

CARRIAGEWAY PLASTIC WHITE LINE MARKINGS.

TENDERS are invited for the MARKING, with THERMOPLASTIC MATERIAL, of WHITE LINES on CARRIAGEWAYS within the Urban District.

Documents may be obtained from the office of the Engineer and Surveyor, Council Offices, Billet Lane, Hornchurch, upon payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender.

Tenders must be returned to the undersigned not later than Noon on MONDAY, 5th September, 1960, sealed in the envelope provided, which shall bear no indication of person(s) tendering.

P. L. COX,
Clerk of the Council.

Council Offices,
Billet Lane,
Hornchurch,
Essex.

FYLD RURAL DISTRICT COUNCIL.

SEWER EXTENSION, WEETON.

TENDERS are invited for the LAYING of 177yd. of 9in. dia. S.G.W. PIPES and the CONSTRUCTION of APPURTENANT MANHOLES and HOUSE DRAINS at WEETON VILLAGE, near Kirkham, Lancs.

Forms of Tender, Bills of Quantities and General Conditions of Contract may be obtained from the office of the Engineer and Surveyor, 25a Station Road, Kirkham, Lancashire, on payment of a deposit of £2 2s. The deposit will be refunded on receipt of a bona-fide Tender. Cheques should be made payable to the Fylde Rural District Council.

Tenders, in sealed plain envelopes endorsed "Sewer Extension," must be delivered to the undersigned not later than Noon on the 29th AUGUST, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. WEBB,
Clerk of the Council.

Council Offices,
Wesham, Kirkham,
Lancashire,
8th August, 1960.

EAST LOTHIAN WATER BOARD.

East Lothian Water Board invite TENDERS for the LAYING and JOINTING of a PIPELINE, 4in. dia., for a distance of 1,010 lin. yd.

Drawings, Specification and Form of Tender may be obtained on application to G. H. HILL AND SONS (Manchester), Civil Engineers, 51 Mosley Street, Manchester, 2, with a deposit of £5 Ss., returnable on receipt of a bona-fide Tender.

Documents and Drawings may also be inspected at the offices of the Board in Haddington by previous appointment.

Sealed Tenders, endorsed "Tender for Spott, Contract Y," to be delivered to the Clerk to the Board, Council Buildings, Haddington, not later than 17th SEPTEMBER, 1960.

The Board do not bind themselves to accept the lowest or any Tender.

THOS. GIBB,
Clerk to the Board.

CONTRACTS

BOROUGH OF WIDNES.

CONTRACT NO. 389.

CATHERINE STREET AND OLLIER STREET
IMPROVEMENT.

TENDERS are invited for the ABOVE CONTRACT, comprising approx. 1,180 sq. yd. PRECAST CONCRETE FLAGGING, 650 lin. yd. CONCRETE KERBS and CHANNELS, and 2,350 sq. yd. BITUMEN MACADAM WEARING COURSE to CARRIAGEWAY.

Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Borough Engineer, Town Hall, Widnes, on payment of a deposit of £2 2s., refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in the envelope, provided, endorsed "Catherine Street Improvement," to Borough Engineer not later than 12 Noon on FRIDAY, 16th September, 1960.

FRANK HOWARTH,
Town Clerk.

August, 1960.

BOROUGH OF ERITH.

PUBLIC CAR PARK—STONEWOOD ROAD,
ERITH, KENT.

TENDERS are invited for the CONSTRUCTION of the ABOVE-MENTIONED CAR PARK, which is some 3,600 sq. yd. in area.

The works include Levelling and Grading of the Site, Constructing a Hardcore and Tarmacadam Surface, 420 lin. yd. of Precast Concrete Kerbing, also approx. 150 lin. yd. of 6in. and 60 lin. yd. of 9in. SURFACE WATER SEWER in Salt Glazed Stoneware Pipes, and other incidental works in the Construction of a Car Park.

Tender documents may be obtained from, and Conditions of Contract and Drawings may be inspected at, the Office of the Borough Engineer and Surveyor, Town Hall, Erith, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender which is not subsequently withdrawn.

Tenders must be in the form provided, enclosed in a sealed envelope endorsed "Tender for Stonewood Road Car Park," and should be delivered to the undersigned not later than 12 Noon on FRIDAY, 2nd September, 1960.

The contractor must be prepared to enter into a formal contract and bond with two sureties for the due performance of the Contract.

The Council do not bind themselves to accept the lowest or any Tender.

J. A. CROMPTON,
Town Clerk.

CITY OF SALFORD.

ELLOR STREET CLEARANCE AREA NO. 5.

TENDERS are invited for the DEMOLITION and SITE CLEARANCE of 245 HOUSES, Four PUBLIC HOUSES, and Several FACTORIES and GARAGES, etc., in the ABOVE CLEARANCE AREA.

Plans and Specification may be seen at, and Forms of Tender obtained from, the City Engineer and Surveyor, Town Hall, Salford, 3, to whom it should be returned on or before Noon, MONDAY, 29th August, 1960.

R. RIBBESDALE THORNTON,
Town Clerk.

CITY OF BATH.

EDUCATION COMMITTEE.

WESTHILL SECONDARY MODERN BOYS'
SCHOOL.

Contractors desirous of TENDERING for the CONSTRUCTION of ADDITIONAL DINING/KITCHEN and WORKSHOP ACCOMMODATION at this School should submit their names to the Architect, F. W. BERSFORD SMITH, F.R.I.B.A., 2 Princes Buildings, Bath, not later than SATURDAY, 27th August, 1960.

Applications should be accompanied by a cheque for £2 2s., made payable to Bath Corporation, which will be returned on receipt of a bona-fide Tender.

Bills of Quantities and Forms of Tender will be forwarded to applicants as early as possible after the above date, when instructions regarding the delivery of Tenders will be notified.

Drawings may be inspected at the Office of the Architect by appointment.

JARED E. DIXON,
Town Clerk.

Guildhall,
Bath,
17th August, 1960.

URBAN DISTRICT OF MERTON AND
MORDEN.

TO TENNIS COURT CONTRACTORS.

The Council invites TENDERS for the CONSTRUCTION of FOUR ALL-WEATHER, NON-ATTENTION COURTS at JOHN INNES PARK, MOSTYN ROAD, S.W.19.

Forms of Tender, Specification and Bill of Quantities may be obtained, and General Conditions of Contract seen, at the office of the Engineer and Surveyor, Morden Hall, S.W.19.

Sealed Tenders, in the envelope supplied, and bearing no name or mark indicating the tender, must be delivered to me not later than 10 a.m. on WEDNESDAY, 31st August, 1960, endorsed "Tennis Courts".

The Council is not bound to accept the lowest or any Tender.

SYDNEY ASTIN,
Clerk of the Council.

Morden Hall,
S.W.19.
August, 1960.

HUNTINGDON RURAL DISTRICT
COUNCIL.TENDERS FOR BUNGALOWS, FLATS AND
ROADWORKS.

TENDERS, on a FIXED-PRICE BASIS, are invited for the ERECTION of 12 BUNGALOWS and EIGHT FLATS, with ASSOCIATED ROADWORKS, at BRAMPTON.

Bills of Quantities and Forms of Tender may be obtained from the Council's Surveyor, at the under-mentioned address, on deposit of £2 2s., which will be returned on receipt of a bona-fide Tender.

Tenders should be returned in the envelopes provided so as to reach me not later than Noon on WEDNESDAY, 14th of September.

The Council does not bind itself to accept the lowest or any Tender, and final acceptance will be subject to the approval of the Ministry of Housing and Local Government.

W. MIDWOOD,
Clerk of the Council.

Montagu House,
Huntingdon,
9th August, 1960.

CONTRACTS

STAFFORDSHIRE COUNTY COUNCIL.

TENDERS are invited for the CONSTRUCTION of a DUAL CARRIAGEWAY DIVERSION of the WORCESTER-WOLVERHAMPTON-SOUTH of STAFFORD TRUNK ROAD, A.449, at BATTLEFIELD, near Wombourne.

The work includes Bulk Excavation, Fencing, Walling, Kerbing, Lean Concrete Carriageway Foundation, Surface Water Drainage, Bituminous Macadam Running Surface and Final Surfacing in Hot Rolled Asphalt. A small span Reinforced Concrete River Bridge is also to be constructed.

Copies of the Specification and Bill of Quantities may be obtained from the undersigned on payment of a deposit of £5, which will be refunded on receipt of a bona-fide Tender or on return of the documents before the closing date.

Tenders, endorsed "A.449 Battlefield Diversion," and bearing no indication of the name of the sender, should be returned to the undersigned not later than 12 Noon on the 20th SEPTEMBER, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

T. H. EVANS,

Clerk of the County Council.

County Buildings,
Stafford,
August, 1960.

BOROUGH OF BRIDGWATER.

PIPING OF MIDDLE STREAM RHINE, BROADWAY LIDO SITE, TAUNTON ROAD, BRIDGWATER.

TENDERS are invited for the LAYING of 64 in. dia. REINFORCED-CONCRETE PIPES: 96 in. dia. REINFORCED CONCRETE CHANNELS, to be laid inverted on 6 in. Concrete Base, together with all incidental works.

Further particulars and documents may be obtained from the Borough Engineer, Town Hall, Bridgwater, on payment of a Two Guinea deposit.

Closing date for receipt of Tenders: 10 a.m. on WEDNESDAY, 31st August, 1960.

H. A. CLIDERO,

Town Clerk.

Town Hall,
Bridgwater,
9th August, 1960.

BOROUGH OF BEDFORD.

CHURCH LANE IMPROVEMENT—QUEENS DRIVE TO PUTNOK STREET.

CONSTRUCTION OF ROADWORKS AND SURFACE WATER DRAINAGE.

TENDERS are invited for the CONSTRUCTION of approx. 3,500 sq. yd. of CARRIAGEWAY, 400 sq. yd. FOOTPATH, SURFACE WATER DRAINAGE, and incidental works.

Applications for Tender documents are to be made to F. W. DAWKES, Borough Engineer and Surveyor, Newnham House, Horne Lane, Bedford, accompanied by a deposit of £2 2s., refundable on receipt of a bona-fide Tender not subsequently withdrawn.

Drawings and Conditions of Contract may be inspected at the Office of the Borough Engineer during the usual office hours.

Tenders, in a plain sealed envelope endorsed "Church Lane Improvement," must be delivered to the undersigned not later than 10 a.m., TUESDAY, 13th September, 1960.

The Council does not bind itself to accept the lowest or any Tender.

G. F. SIMMONDS,

Town Clerk.

Town Hall,
Bedford.

BOROUGH OF BARKING.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

BARKING PARK—REINSTATEMENT OF HUTTED CAMP SITE.

TENDERS are invited for the REINSTATEMENT of a PORTION OF BARKING PARK, previously used as a hutted camp site.

The work comprises the Regrading of the Whole Site of approx. 4 Acres, the Provision of Topsoil and Seeding Part of the Area, and an Ash Car Park of the Remainder of the Site.

Tender documents can be obtained from the Borough Engineer and Surveyor, Town Hall, Barking, and should be returned to The Worshipful the Mayor, Town Hall, Barking, by 9 a.m. on the 5th SEPTEMBER, 1960.

E. R. FARR,

Town Clerk.

Town Hall,
Barking.

THE URBAN DISTRICT OF ABERDARE.

- (1) ERECTION OF OMNIBUS SHELTER.
- (2) EXTENSIONS TO CEMETERY LODGE.

TENDERS are invited for the FOLLOWING:

(1) The Demolition of an existing Shelter and the Erection of a new Shelter near the lower entrance to the Aberdare Public Park; and

(2) Extensions to the New Cemetery Lodge, Hirwaun Road, Treccynon.

Tender documents in respect of each of these works, which are to be carried out separately, may be obtained from the Engineer and Surveyor, Vestry Hall, Aberdare, on payment of £2, returnable on receipt of a bona-fide Tender and all loaned documents.

Tenders, in plain sealed envelopes bearing no mark or indication of the sender, but endorsed "Omnibus Shelter" or "Cemetery Lodge," must reach me on or before FRIDAY, 2nd September, 1960.

D. G. JAMES,

Clerk of the Council.

Town Hall,
Aberdare,
9th August, 1960.

BORDER RURAL DISTRICT COUNCIL.

CREW FELL WATER SUPPLY EXTENSION.

The Council invite TENDERS for the LAYING of approx. 2,850 in. dia. of 3 in. dia. SPUN CAST-IRON PIPES with Tyton joints, along with necessary Valves, Fittings, etc.

Contractors with the necessary experience, plant and labour force desirous of tendering should submit their names and addresses, together with deposit of £2 2s., to the Council's Engineer at the under-mentioned address, following which Specification and Bill of Quantities will be forwarded.

E. E. HARDING,

Clerk of the Council.

7 Victoria Place,
Carlisle,
12th August, 1960.

CONTRACTS

COUNTY BOROUGH OF BRIGHTON.

HIGHWAYS ACT, 1959—CODE OF 1892.

GREENBANK AVENUE, SALTDEAN.

TENDERS are invited for COMPLETING THE STREET WORKS at GREENBANK AVENUE, SALTDEAN (length 907 in. yd.).

The Works consist of Macadam Carriageway, Kerb, Flag Pavements, Surface Drainage, and Incidental Works.

The Bill of Quantities and Contract documents may be obtained, and the General Conditions of Contract and Drawings inspected, at the office of D. J. HOWE, M.I.C.E., Borough Surveyor, 26-30 King's Road, Brighton.

Tenders, with Priced Bill of Quantities and other documents, must be returned in the envelope provided, bearing no indication of the sender's identity, not later than Noon on TUESDAY, 30th August, 1960.

The Council is not bound to accept the lowest or any Tender.

W. O. DODD,

Town Clerk.

Town Hall,
Brighton, 1,
August, 1960.

ROYTON URBAN DISTRICT COUNCIL.

MODERNISATION OF PUBLIC BATHS AND PROVISION OF PUBLIC CONVENIENCES—PARK STREET, ROYTON.

The Council invite TENDERS, on a Fixed-price Basis, for WORKS of RECONSTRUCTION of the PUBLIC BATHS and the PROVISION of PUBLIC CONVENIENCES.

Bill of Quantities, Specification, Plans, Form of Tender and other particulars can be obtained on application to the Architects, MESSRS. TURNER, SON AND PARTNER, of Retiro Chambers, Waterloo Street, Oldham, Lancs., on payment of a deposit of Two Guineas (by cheque only, payable to the Urban District Council of Royton), which will be refunded on receipt of a bona-fide Tender and return of all documents.

The successful contractor will be required to execute the Council's contract and bond.

Tenders, on the form provided, should be submitted in a plain sealed envelope bearing no name or mark to indicate the sender, and endorsed "Tender for Proposed Alterations and Additions to Public Baths, Royton," and delivered to the undersigned not later than 9 a.m. on TUESDAY, the 6th September, 1960.

The Council will not bind themselves to accept the lowest or any Tender, and acceptance of a Tender will be subject to the final approval of the Minister of Housing and Local Government.

The contractor will be required to commence work immediately such approval is received.

A. DONALD OGDEN,

Clerk of the Council.

Town Hall,
Royton, Lancs.,
11th August, 1960.

MALVERN URBAN DISTRICT COUNCIL.

EXTENSIONS AND ALTERATIONS TO PRIORY PARK SWIMMING POOL.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of a NEW BUILDING, comprising Changing Accommodation and ancillaries, together with an Extension to the Filter House, Provision of a small Training Pool, Alterations and Repairs to existing Building and Swimming Pool.

Drawings, Specification, Bills of Quantities and Form of Tender may be obtained from MR. C. C. JUDSON, Surveyor and Water Engineer, The Council House, Malvern, on payment of a deposit of Five Guineas, which will be returned after receipt of a bona-fide Tender.

Tenders, on the prescribed form, in the envelope supplied, must be delivered to the undersigned not later than Noon on the 16th SEPTEMBER, 1960.

The Council will not bind themselves to accept the lowest or any Tender.

J. BULMAN,

Clerk of the Council.

The Council House,
Malvern,
10th August, 1960.

BICESTER URBAN DISTRICT COUNCIL.

WATER MAIN.

FIXED-PRICE TENDERS are invited for the LAYING of approx. 6,900 in. yd. of 9 in. SPUN-IRON WATER MAIN and FITTINGS, in land along a route from UPPER HEYFORD to BICESTER, through the Parish of Ardley and Bucknell in the Ploughley R.D.C. area. Plans, Specifications and Bills of Quantities may be seen at the Council Offices, and copies of Specifications and Bills of Quantities and Form of Tender may be obtained from GERALD CARLINE, ESQ., Surveyor, at the address below, on payment of a deposit of Two Guineas, refundable on receipt of a bona-fide Tender not subsequently withdrawn and the return of the documents.

Tenders, in plain sealed envelopes endorsed "9 in. Water Main," to be delivered to the undersigned not later than 12 o'clock Noon on TUESDAY, 27th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. W. BAINTON,

Clerk of the Council.

Bicester Urban District Council,
The Garth,
Bicester, Oxon.,
12th August, 1960.

ROTHWELL (YORKS.) URBAN DISTRICT COUNCIL.

MICKLETON-LEMONROYD SEWERAGE SCHEME.

The above Council invite FIXED-PRICE TENDERS from experienced contractors for the CONSTRUCTION of SEWERAGE WORKS, comprising the FOLLOWING:

A Main Pumping Station, Storm Overflow Chamber, 27 in. dia. Outfall Sewers, and Sifteworks at Mickleton.

3,400 in. yd. of 9 in. dia. Pumping Main, Reinforced Concrete Humus Tanks, Sludge Drying Beds, Sludge Pumping Station, Pipes, Manholes, and Access Roads at Lemonroyd Sewage Works.

Contractors wishing to tender should submit their names, together with evidence of considerable experience in similar work, to A. D. W. DIBBLE, M.I.Mun.E., Engineer and Surveyor, Civic Buildings, Rothwell, not later than 9 a.m., TUESDAY, 23rd August, 1960.

The Council does not bind itself to accept the lowest or any Tender.

ALLEN T. S. ROBERTSON,

Clerk of the Council.

Civic Buildings,
Rothwell, Yorks.,
11th August, 1960.

CONTRACTS

BOROUGH OF ABERYSTWYTH.

CONSTRUCTION OF SEWER AT SEA VIEW PLACE.

TENDERS are invited for the CONSTRUCTION of approx. 70 in. yd. of 6 in. diameter FOUL SEWER, together with Manholes and ancillary Works.

Forms of Tender, Specifications and Bills of Quantities may be obtained from the Borough Surveyor and Water Engineer, Park Avenue, Aberystwyth.

Tenders, in envelopes provided by the Council, must reach the undersigned not later than MONDAY, 19th September, 1960.

The Council does not bind itself to accept the lowest or any Tender.

W. PHILIP DAVIES,

Town Clerk.

Town Hall,
Aberystwyth,
11th August, 1960.

BOROUGH OF BEDFORD.

NEWNHAM BATHS IMPROVEMENT—CONTRACT 3.

ADDITIONAL CHANGING AND CLOTHES STORAGE ACCOMMODATION.

TENDERS are invited for the ERECTION of ADDITIONAL CHANGING and CLOTHES STORAGE ACCOMMODATION which is to be sited immediately behind the existing changing block.

Applications for Tender documents should be made to F. W. DAWKES, ESQ., Borough Engineer and Surveyor, Newnham House, Horne Lane, Bedford, accompanied by a deposit of £2 2s., which is returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Drawings and Conditions of Contract may be inspected at the office of the Borough Engineer during usual office hours.

Tenders, in plain sealed envelopes endorsed "Additional Changing Accommodation," must be delivered to the undersigned not later than 10 a.m. on WEDNESDAY, 7th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

G. F. SIMMONDS,

Town Clerk.

Town Hall,
Bedford.

CITY OF MANCHESTER.

PRIVATE STREET WORKS.

TENDERS are invited for PAVING and COMPLETING THE FOLLOWING STREETS:

(1) Coatbridge Street, Clayton.—Approx. 100 sq. yd. of Bitumen Macadam Carriageway; 90 sq. yd. of Precast Concrete Flag Footpath, and all ancillary works.

(2) Miller Street, Newton Heath.—Approx. 280 sq. yd. of Bitumen Macadam Carriageway; 110 sq. yd. of Asphalts and Carpet Footpath, and all ancillary works.

Tender documents (returnable by 5th SEPTEMBER, 1960), from the CITY SURVEYOR, Town Hall, Manchester, 2.

BUCKLEY URBAN DISTRICT COUNCIL.

ERECTION OF HOUSES, ETC., AND ROADS AND SEWERS.

FIRM-PRICED TENDERS are invited for the FIRST STAGE of HOUSING DEVELOPMENT on the WESTERN PARK HOUSING EXTENSION SCHEME for the FOLLOWING:

(i) Road and Sewer Works, and

(ii) 109 Dwelling Units.

The Works mainly comprise in the case of (i) 1,450 yd. of Tarmac Carriageway and Footpaths, and 1,000 yd. of 9 in. and 6 in. Sewers; and in the case of (ii) the Erection of Three-storey Flats, Dwelling-houses, Old People's Bungalows and Garages.

Tenderers may quote for either or both items.

Forms of Tender, Specifications, Bills of Quantities and Drawings may be obtained from RONALD S. BIGGINS, ESQ., A.R.I.B.A. and Associates, of Richmond House, Boughton, Chester, on payment of a deposit of £5 5s., which will be refunded on receipt of a bona-fide Tender.

Tenders, in the envelopes provided, must be delivered to the undersigned not later than 12 Noon on FRIDAY, the 23rd September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

STEVEN E. LIGO,

Clerk of the Council.

Council Chambers,
Buckley.

EASTHAMPTON RURAL DISTRICT COUNCIL.

GOUGH'S MEADOW HOUSING SITE, SANDHURST.

REALIGNMENT OF SWAN LANE: CONSTRUCTION OF SITE FOOTPATHS, VERGES, AND ANCILLARY WORKS.

TENDERS are invited from civil engineering contractors for the ABOVE WORKS, comprising: Approx. 400 sq. yd. Lean Mix concrete Carriageway with Bitumen Macadam Topping; 150 in. yd. 10 in. x 5 in. P.C.C. Kerbing; 1,700 sq. yd. Tarmac Footpaths with P.C.C. Edging; 6,000 sq. yd. Seeding of Grassed Areas.

Forms of Tender, Specification and Bills of Quantity can be obtained from the Engineer and Surveyor to the Council at the address below, and applications to be accompanied by a deposit of Two Guineas, which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be submitted in the envelope provided to reach the undersigned not later than MONDAY, the 12th September, 1960.

The Council does not bind itself to accept the lowest or any Tender.

D. H. M. SAUNDERS,

Clerk of the Council.

Council Offices,
Church Road,
Bracknell, Berks.

DURSLEY RURAL DISTRICT COUNCIL.

WATER MAIN EXTENSION TO BENCOMBE, ULEY.

TENDERS are invited for the LAYING of approx. 680 yd. of 3 in. ASBESTOS-CEMENT CLASS C PIPES and 200 yd. of 1½ in. GALVANISED STEEL TUBE, together with Valves and Hydrants.

Drawings, Specification, Bill of Quantities and Form of Tender may be obtained from the office of MR. H. J. DIMERY, the Council's Engineer and Surveyor, on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender and all tendering documents.

Tenders should be submitted to the undersigned not later than Tuesday, 13th September, 1960, in the appropriately endorsed envelopes, which will be supplied by the Council with the tender documents.

Dated this 10th day of AUGUST, 1960, at the Council Offices, Kingshill, Dursley.

H. A. PATE,

Clerk of the Council.

CONTRACTS

BOROUGH OF HARROW.

ERECTION OF PUBLIC CONVENIENCE.

TENDERS are invited for the ERECTION of a PUBLIC CONVENIENCE in HONEYFOT LANE, Queensbury, fronting the Old Isolation Hospital. Plans and Conditions of Contract may be inspected at the Office of, and a copy of the Form of Tender, Specification and Bill of Quantities obtained on application to, the Borough Engineer and Surveyor, at the Council Offices, Cottesmore, 48 Uxbridge Road, Stammers, Middlesex, on payment of Two Pounds by crossed cheque made payable to Harrow Corporation, returnable where a bona-fide Tender reaches me within the prescribed time.

Tenders, on the prescribed form, together with the priced and sealed Bill of Quantities, which will be opened in the case of the lowest Tenders only, enclosed in plain sealed envelopes bearing no indication of the sender, and endorsed "Erection of Public Convenience, Queensbury," to be delivered to my Office not later than 10 a.m. on TUESDAY, 27th September, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

D. H. PRITCHARD,

Town Clerk.

Town Clerk's Office,
Harrow Weald Lodge,
92 Uxbridge Road,
Harrow, Middx.

CITY OF STOKE-ON-TRENT.

CHORLEY AVENUE HOUSING ESTATE, CHELL.

BOUNDARY FENCING—MINERAL RAILWAY LINE.

W.I. FENCING.

The CORPORATION invite TENDERS for the PROVISION, ERECTION AND PAINTING of approx. 528 lin. yd. of WROUGHT-IRON FENCING 5ft. high to the ABOVE BOUNDARY.

Specification and Particulars may be obtained from the City Engineer and Surveyor, Town Hall, Stoke-on-Trent, on the deposit of £1 (note). Such deposit will be repaid upon the receipt of a bona-fide Tender.

Tenders, endorsed "Fencing—Chorley Avenue Housing Estate, Chell," to be delivered to the undersigned not later than 12 Noon, WEDNESDAY, 7th September, 1960, in a plain sealed envelope which must not bear any name or mark indicating the sender.

HARRY TAYLOR,

Town Clerk.

CITY OF STOKE-ON-TRENT.

HAMILL ROAD IMPROVEMENT, BURSLEM.

The CORPORATION invite TENDERS for the ABOVE ROAD IMPROVEMENT including the following: 1,000 sq. yd. 9in. Foundations; 2,000 sq. yd. 3in. Bitumen Macadam Surfacing; 270 lin. yd. 5in. x 10in. Precast Concrete Kerbs and Foundations; 925 sq. yd. 2in. Concrete Flag Paving, together with other incidental works.

Drawings and Conditions of Contract may be seen, and Specification and Bills of Quantities obtained, upon application to the City Engineer and Surveyor, Town Hall, Stoke-on-Trent, on payment of £2 deposit. Such deposit will be returned if a bona-fide Tender is received.

Tenders must be delivered to the Town Clerk, Town Hall, Stoke-on-Trent, in the envelope provided, not later than 12 Noon on WEDNESDAY, 7th September, 1960.

HARRY TAYLOR,

Town Clerk.

CITY OF STOKE-ON-TRENT.

- (a) HONEYHALL HOUSING ESTATE, PENKHULL.
(b) BERRY HILL NEIGHBOURHOOD UNIT.
(c) WARREN ROAD HOUSING ESTATE, CHELL HEATH.

COMPLETION OF STREET WORKS.

The CORPORATION invite TENDERS for the COMPLETION OF STREET WORKS on the ABOVE ESTATES.

Drawings and Conditions of Contract may be seen at, and Bills of Quantities and Specifications obtained from, the City Surveyor's Department, Town Hall, Stoke-on-Trent, on payment of £2 each for (a), (b) and (c), which will be returned upon receipt of a bona-fide Tender.

Tenders and priced Bills of Quantities must be delivered to the Town Clerk, Town Hall, Stoke-on-Trent, in the separate envelopes provided, not later than 12 Noon on WEDNESDAY, 7th September, 1960.

HARRY TAYLOR,

Town Clerk.

URBAN DISTRICT OF MELTON MOWBRAY.

ROADS RESURFACING CONTRACT, 1960.

TENDERS are invited for RESURFACING of approx. 11,050 sq. yd. of URBAN HIGHWAYS. Forms of Tender and Contract details, apply to ENGINEER AND SURVEYOR, Egerton Lodge, Melton Mowbray.

Completed Tenders to be forwarded, in envelope provided, so as to be received by 5 p.m., 23rd AUGUST, 1960.

STAINES URBAN DISTRICT COUNCIL.

CLASS "B" LIGHTING SCHEME.

FIXED-PRICE TENDERS are invited from manufacturers for the PROVISION AND INSTALLATION of 215 TUBULAR STEEL COLUMNS, LANTERNS AND GEAR, and for the DISMANTLING AND RESITING of, or ADJUSTMENT to, a further 252 CAST-IRON COLUMNS.

The Specification, Bill of Quantities and Form of Tender may be obtained from, and Drawings and Conditions of Contract inspected at, the Office of the Engineer and Surveyor, 240 London Road, Staines, Middlesex, on payment of a deposit of £2 2s., returnable on receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents.

Sealed Tenders, in the endorsed envelope provided, and free from any mark indicating the name of the sender, shall be delivered to the undersigned not later than 5 p.m. on THURSDAY, 8th September, 1960.

The Council does not bind itself to accept the lowest or any Tender, or may accept all or part of any Tender.

F. ENTWISTLE,

Elmsleigh,
73 High Street,
Staines, Middlesex.

CONTRACTS

COUNTY BOROUGH OF WEST BROMWICH.

ERECTION OF 132 MAISONNETTES.

TENDERS are invited for the ERECTION of 132 MAISONNETTES, in Blocks of Four Storeys. Bills of Quantities and Forms of Tender will be available on the 19th August, 1960. Tenders should be sent in a sealed envelope endorsed "Contract for 132 Maisonnets," to reach the undersigned not later than 12 Noon, 18th SEPTEMBER, 1960.

The Council does not bind itself to accept the lowest or any Tender.

W. H. GREENWOOD,

Borough Engineer and Surveyor.

Town Hall,
West Bromwich,
9th August, 1960.

BOROUGH OF TAMWORTH.

PROPOSED SURFACE WATER DRAINAGE SCHEME.

COMBERFORD ROAD HOUSING ESTATE AND LICHFIELD ROAD INDUSTRIAL ESTATE.

TENDERS are invited from experienced public works contractors for the MAJOR WIDENING of an EXISTING WATERCOURSE involving approx. 13,700 cu. yd. Excavation over a length of 3,217 lin. yd.; approx. 514 lin. yd. of twin 33in. diameter and twin 36in. diameter Concrete Pipe Sewer, including section under Main Line Railway Bridge; two twin 48in. diameter Pipe Culverts under a Railway Siding, and a Road 45 lin. yd.; Fencing and ancillary Works.

Bills of Quantities, Specification and Form of Tender may be obtained from, and Drawings inspected at, the office of the undersigned.

Tenders, in plain sealed envelope and endorsed "Surface Water Drainage Scheme," must be returned to H. B. LEAKE, ESQ., Town Clerk, Municipal Offices, Tamworth, Staffordshire, not later than 8th SEPTEMBER, 1960.

H. F. BRUCE SMITH,

M.I.Mun.E.,
Borough Engineer and Surveyor.

Municipal Offices,
Tamworth, Staffs.,
August, 1960.

BOROUGH OF TAMWORTH.

TRUNK FOUL SEWER BETWEEN THE RAILWAY AND THE TAMWORTH JOINT COMMITTEE'S SEWAGE PUMPING STATION.

TENDERS are invited for the LAYING of approx. 187 yd. of 21in. and 820 yd. of 24in. FIRST QUALITY GLAZED STONEWARE PIPES, together with ancillary Works.

General Conditions of Contract may be seen and Bills of Quantities, Specification, Form of Tender and Drawings obtained, on application to the undersigned. Tenders, in plain sealed envelopes, bearing any mark or name indicating the sender and endorsed "Tender for Trunk Foul Sewer," should be delivered not later than 8th SEPTEMBER, 1960, to H. B. LEAKE, ESQ., Town Clerk, Municipal Offices, Tamworth, Staffordshire.

The Council do not undertake to accept the lowest or any Tender.

H. F. BRUCE SMITH,

M.I.Mun.E.,
Borough Engineer and Surveyor.

Municipal Offices,
Tamworth, Staffs.,
August, 1960.

BOROUGH OF MAIDSTONE.

DEMOLITION OF MOTE HOUSE.

TENDERS are invited for the DEMOLITION of the ABOVE MANSION, built partly of Portland stone, together with a number of ancillary buildings.

Documents available on request from the Borough Engineer, Palace Avenue, Maidstone. Inspection by appointment only.

Tenders are to be delivered to the undersigned by the 12th SEPTEMBER, in plain sealed envelopes endorsed "Tender for Mote House Demolition." The Council do not bind themselves to accept any Tender.

T. SCHOLES,

Town Clerk.

13 Tonbridge Road,
Maidstone,
August, 1960.

CITY OF ST. ALBANS.

SURFACE DRESSING OF FOOTPATHS.

VERULAMIUM AND CLARENCE PARK.

TENDERS are invited for SURFACE DRESSING approx. 22,000 sq. yd. of FOOTPATHS with COLD BITUMEN EMULSION and GRANITE or LIMESTONE CHIPPINGS.

Tender documents may be obtained from the City Engineer and Surveyor, 16 St. Peter's Street, St. Albans.

Tenders, in the envelopes provided, and bearing no indication of the sender, should reach the undersigned not later than noon on 31st AUGUST.

B. V. ENTWISTLE,

Town Clerk.

38 St. Peter's Street,
St. Albans, Herts.

THAMES VALLEY WATER BOARD.

CHAIN HILL RESERVOIR NO. 2.

WANTAGE URBAN DISTRICT, BERKSHIRE.

The Board invite TENDERS from contractors experienced in Reservoir Construction and Similar Works for the CONSTRUCTION of a CONCRETE RESERVOIR of 400,000 gallons capacity, together with Pipework and other incidental Work, in the ABOVE URBAN DISTRICT.

A copy of the Drawings and Contract documents may be obtained between 19th and 26th August, 1960, from the Consulting Engineers, HOWARD HUMPHREYS AND SONS, Victoria Station House, Victoria Street, Westminster, London, S.W.1, on payment of a deposit of Five Guineas, made payable to the Thames Valley Water Board, which will be returned upon receipt of a bona-fide Tender not subsequently withdrawn.

Application for Tender documents must be accompanied by the names and addresses of Engineers under whose direction similar construction has been carried out by the applicant.

Tenders, enclosed in a plain sealed envelope which shall not bear any name or mark indicating the sender and endorsed "Tender for Chain Hill Reservoir No. 2," must reach the undersigned not later than the First Post on THURSDAY, 15th September, 1960.

The Board do not bind themselves to accept the lowest or any Tender.

G. F. DARLOW,

Clerk to the Board.

Town Hall,
Reading.

CONTRACTS

COUNTY BOROUGH OF WOLVERHAMPTON.

DEMOLITION OF RETAIL MARKET HALL, NORTH STREET, WOLVERHAMPTON.

TENDERS are invited for the DEMOLITION of the DISUSED RETAIL MARKET HALL, North Street, Wolverhampton, and the REGRADING of this SITE.

Drawings may be inspected, and Tender documents obtained, on application to the Borough Engineer, Town Hall, Wolverhampton, on payment of £2 2s. deposit, returnable on receipt of a bona-fide Tender.

Tenders, enclosed in the envelope provided, must be returned to the TOWN CLERK, Town Hall, Wolverhampton, by Noon on WEDNESDAY, 31st August, 1960.

BOROUGH OF SHREWSBURY.

ERECTION OF HOUSES, BUNGALOWS, SHOPS AND GARAGES.

TENDERS are invited for a Fixed-price Contract for the ERECTION of SIX HOUSES, TWO BUNGALOWS, TWO SHOPS, 19 GARAGES, and ALTERATIONS to MONKMOOR HALL FARM, to provide New Dairy and Calf Boxes. The works are on several sites, all in the CROWMOOR DISTRICT.

Specifications, Drawings, Bills of Quantities and Forms of Tender may be obtained from, and Conditions of Contract may be seen during office hours at the Office of the Borough Surveyor, Guildhall, Shrewsbury, on and after 31st AUGUST, on payment of £2 2s., which will be returned on receipt of a bona-fide Tender and the remaining documents.

Tenders, on the prescribed form, sealed in the envelope provided and bearing no mark of identification, are to be received by the undersigned not later than 10 a.m. on WEDNESDAY, 21st September, 1960.

The Council do not bind themselves to accept the lowest or any other Tender.

S. R. H. LOXTON,

Town Clerk.

Guildhall,
Shrewsbury,
August, 1960.

BOROUGH OF SHREWSBURY.

ERECTION OF HOUSES, BUNGALOWS, FLATS, GARAGES AND A SHOP.

TENDERS are invited for a Fixed-price Contract for the ERECTION of 67 DWELLINGS, 19 GARAGES and ONE SHOP at DITHERINGTON, Shrewsbury.

Specifications, Drawings, Bills of Quantities and Forms of Tender may be obtained from, and Conditions of Contract may be seen during office hours at the Office of the Borough Surveyor, Guildhall, Shrewsbury, on and after 31st August on payment of £2 2s., which will be returned on receipt of a bona-fide Tender and the remaining documents.

Tenders, on the prescribed form, sealed in the envelope provided, and bearing no mark of identification, are to be received by the undersigned not later than 10 a.m. on WEDNESDAY, 21st September, 1960.

The Council do not bind themselves to accept the lowest or any other Tender.

S. R. H. LOXTON,

Town Clerk.

Guildhall,
Shrewsbury,
August, 1960.

BOROUGH OF RICHMOND (SURREY).

REBUILDING OF CORPORATION DEPOT—PHASE I

TENDERS are invited for PHASE I of the ABOVE REBUILDING SCHEME.

This phase consists of the Demolition and Rebuilding of Stores and Offices, etc., along Lower Mortlake Road frontage of the Depot.

Drawings may be inspected at the Borough Engineer's Office, King's Road, Richmond, and Tender documents will be available on application to that address on or after 25th AUGUST, 1960, upon payment of a deposit of Five Guineas, which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, sealed in envelopes provided, endorsed "Tender, Phase I—Rebuilding Corporation Depot," must reach the undersigned not later than Noon on THURSDAY, 22nd September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

CLIFFORD HEYWORTH,

Town Clerk.

Town Hall,
Richmond,
Surrey.

CITY OF CAMBRIDGE.

TO BUILDERS.

FIXED-PRICE TENDERS on Bills of Quantities are invited for the ERECTION of EXTENSIONS and ALTERATIONS to HOBBS PAVILION on PARKERS PIECE.

The work (total floor area 850 sq. ft.) includes Extensions to the Existing Kitchen and Dressing-room Accommodation. The Construction is in Brick with Pantile Pitch Roofs and Flat Felt Roofs, with Board and Joist Floors.

Applications, with deposit of £2, to be submitted to the City Surveyor, The Guildhall, Cambridge, not later than 8th SEPTEMBER, 1960.

Tender documents will be issued on the 19th September and must be returned not later than 17th OCTOBER.

ALAN H. I. SWIFT,

Town Clerk.

The Guildhall,

Cambridge.

WIMBORNE AND CRANBORNE RURAL DISTRICT COUNCIL.

COLEHILL, PAMPHILL AND HAMPRESTON (PARTS OF) SEWERAGE SCHEME.

CONTRACT NO. 7.

FIXED-PRICE TENDERS are invited for the LAYING of approx. EIGHT MILES of 6in. and 9in. SEWERS, with Flexible Joints, Manholes, 400 House Connections, Two Pumping Stations and 1,460 yd. Rising Mains.

Documents available from the Surveyor, on payment of Five Guineas, returnable on receipt of all documents and a bona-fide Tender not subsequently withdrawn. Sealed Tenders to the undersigned by Noon, 22nd SEPTEMBER.

R. H. K. WICKHAM,

Clerk to the Council.

Furzehill,
Wimborne,
Dorset.

10th August, 1960.

CONTRACTS

HERTFORDSHIRE COUNTY COUNCIL.

PRIVATE STREET WORKS.

TENDERS are invited for MAKING-UP FIVE PRIVATE STREETS, having a total length of approx. 2,240 yd., at ST. MERYL ESTATE, CARPENDERS PARK.

The streets have carriageways 16ft., 20ft. and 24ft. wide, footways 5ft. and 6ft. wide, and verges. The work includes Surfacing the Existing Concrete Carriageways with Bitumen Macadam, Taking-up and Re-laying the Existing Paving Slabs to Footways, Constructing New Footways with Bitumen Macadam, Taking-up and Re-laying the Existing Kerbing and Supplying and Laying New Kerbing where necessary, and Constructing Footway Crossings.

The Drawings may be inspected by appointment, and copies of the Conditions of Contract, Specification, Bill of Quantities and Form of Tender may be obtained from the County Surveyor's Department, County Hall, Hertford.

Tenders must be delivered, in envelopes which will be provided, to the CLERK OF THE COUNTY COUNCIL, County Hall, Hertford, by the 14th SEPTEMBER, 1960.

The Council does not bind itself to accept the lowest or any Tender.

CITY OF BIRMINGHAM.

TO BUILDING CONTRACTORS.

CONTRACT 704—EIGHT 2-STORY DWELLINGS—GLEBE FARM ROAD, STECHFORD.

CONTRACT 714—12 1- & 2-STORY DWELLINGS—BELL HOLLOWAY ESTATE, NORTHFIELD.

The HOUSEBUILDING COMMITTEE invite FIRM-PRICE TENDERS for the ERECTION of the ABOVE.

Bills of Quantities and Forms of Tender will be forwarded on payment of £2 2s. for each Contract, at the Office of A. G. SHEPPARD FIDLER, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 23rd AUGUST, 1960. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposits will be returned on receipt of bona-fide Tenders, or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of Tenders.

Tenders, enclosed in the envelopes provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, not later than 12 Noon on FRIDAY, the 23rd September, 1960. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON, Town Clerk.
Council House, Birmingham, 1.

BEESTON AND STAPLEFORD URBAN DISTRICT COUNCIL.

AUDON AVENUE FLOOD RELIEF SCHEME, CHILWELL.

TENDERS are invited for the CONSTRUCTION of 630 lin. yd. of CONCRETE BOX CULVERT, internal dimensions 8ft. 3in. x 5ft., constructed (in part) across the main Derby/Nottingham railway line; 250 lin. yd. of 6ft. dia. CONCRETE CULVERT; 930 lin. yd. of 12in. dia. to 24in. dia. Pipes, and the RE-LAYING of 100 lin. yd. of 6in. dia. and 12in. dia. FOUL SEWERS.

Specification, Bill of Quantities and Form of Tender may be obtained from the Engineer and Surveyor, Town Hall, Beeston, Notts., upon payment of a deposit of Two Guineas, which will be returnable upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders to be returned to the undersigned, in plain sealed envelope marked "Tender for Audon Avenue Flood Relief Scheme," not later than Noon on TUESDAY, 6th September, 1960.

H. D. JEFFRIES, Clerk of the Council.
Town Hall, Beeston, Nottingham.

CATERHAM AND WARRINGHAM URBAN DISTRICT COUNCIL.

RESURFACING FOOTWAYS.

TENDERS are invited for FOOTWAY CONSTRUCTION in GOSTONE ROAD, Whyteleaf. The works include approx. 500 lin. yd. of Concrete Kerb and 200 sq. yd. of Asphalt Surfacing.

Specification, Bills of Quantities and Forms of Tender may be obtained from the Engineer and Surveyor.

Completed Tenders, enclosed in the endorsed envelope provided, are to be returned to the undersigned not later than 4 p.m. on FRIDAY, 9th September, 1960.

B. J. SMERDON, Clerk of the Council.
Council Offices, Caterham.

LEE CONSERVANCY CATCHMENT BOARD.

SADLERS MILL STREAM DIVERSION SCHEME.

TENDERS are invited for the FOLLOWING WORKS in the Boroughs of Edmonton and Enfield, in the County of Middlesex:

- (a) Construction of about 600 lin. yd. of 5ft. 6in. dia. Culvert in Tunnel, and about 275 lin. yd. of same in Trench;
- (b) Construction of about 325 lin. yd. of Reinforced Concrete Culvert of widths varying from 4ft. 6in. to 9ft. and height about 4ft., together with Manholes and appurtenant works.

Copies of the tendering documents may be obtained after 18th August, 1960, from the Board's Consulting Engineers, J. D. AND D. M. WATSON, M.M.I.C.E., 67 Tufston Street, Westminster, S.W.1, upon payment of a deposit of Ten Guineas, which will be returned only on receipt of a bona-fide Tender and return of all documents. Cheques should be made payable to The Lee Conservancy Catchment Board.

The Board does not bind itself to accept the lowest or any Tender will be considered unless received in the envelope provided (with no mark indicating the sender), sealed, and delivered to the undersigned by Noon on 19th SEPTEMBER, 1960.

J. L. SPILLER, Clerk of the Board.
The Lee Conservancy Catchment Board,
Brettenham House,
Lancaster Place,
Strand, W.C.2.

CONTRACTS

ISLE OF WIGHT COUNTY COUNCIL.

PROPOSED HIGHWAY IMPROVEMENT AT BLACKWATER JUNCTION, BLACKWATER, NEAR NEWPORT, ISLE OF WIGHT.

TENDERS are invited from experienced contractors for the CONSTRUCTION in LEAN MIX CONCRETE and BITUMINOUS MACADAM of approx. 700 lin. yd. of CARRIAGEWAY not less than 22ft. wide, together with Surface Water Drainage, Fencing, and other ancillary works.

Relevant documents are available from the County Surveyor upon payment of £2 2s., which will be returned on receipt of a bona-fide Tender, and Drawings may be inspected at the County Surveyor's Office during normal working hours.

Tenders, in plain sealed envelopes endorsed "Tender for Improvement—Blackwater Junction," must reach the undersigned not later than 9 a.m. on TUESDAY, the 13th September, 1960.

The works are to be commenced during October and completed before the 31st March, 1961.

The Council do not bind themselves to accept the lowest or any Tender.

L. H. BAINES, Clerk of the County Council.

BRECONSHIRE COUNTY COUNCIL.

NEW COUNCIL CHAMBER, BRECON.

TENDERS are to be invited from Heating and Ventilating Engineering Contractors for the MECHANICAL INSTALLATIONS (Heating, Ventilating and Water Supply) for the ABOVE-MENTIONED PROJECT.

The Building will comprise Council Chamber, Public Gallery, Ante-room, Committee Room, Chairman's Room, Eight Offices, Boiler House, etc. The Installation will comprise systems of Central Heating with Oil-fired Boilers, Domestic Hot- and Cold-water Supplies, and Plenum Ventilation.

All inquiring contractors who are desirous of tendering for the Sub-Contract are invited to submit their names to the County Architect, Rhyd Offices, Brecon, not later than 31st AUGUST, 1960.

The Council does not bind itself to accept the lowest or any Tender.

C. M. S. WELLS, Clerk of the County Council.
County Hall, Brecon.

WEST SUSSEX COUNTY COUNCIL.

Public works contractors who wish to be invited to TENDERS for the UNDERMENTIONED ROAD IMPROVEMENT SCHEME should submit their name to the County Surveyor, at County Hall, Chichester, in an envelope endorsed "Pulborough—Improvement to Pulborough-Petworth Road (A.283) from Railway to River Bridge," not later than 26th AUGUST, 1960.

The Scheme involves the Excavation and Haulage of approx. 15,000 cu. yd. of Soil; Widening of existing Carriageway, and Construction of length of new Carriageway, employing Lean Mix Concrete with Black Top Surface; Stormwater Drainage, etc., over a length of approx. 1,300 yd.

T. C. HAYWARD, Clerk of the County Council.

COUNTY BOROUGH OF SOUTHAMPTON.

CONTRACT 5.217—PREPARATION OF GARAGE APRONS AND BASES.

SOUTHAMPTON C.B.C. invite TENDERS for the CONSTRUCTION OF ACCESS ROADS, CONCRETE GARAGE APRONS and BASES and appurtenant works, on VARIOUS SITES within the Borough (Approx. 2,000 sq. yd. Bases, 3,500 sq. yd. Aprons and 400 lin. yd. Sewers).

Applications for Contract documents to be made by the 23rd AUGUST, 1960, to the BOROUGH ENGINEER AND SURVEYOR, Civic Centre, Southampton. Documents will be forwarded thereafter with details of the closing date for the submission of Tenders.

The Council do not bind themselves to accept the lowest or any Tender.

COUNTY BOROUGH OF BLACKPOOL.

TENDERS (by 2.30 p.m., MONDAY, 19th September, 1960) are invited for the TAKING OF BOREHOLES AT SEA and the SAMPLING and TESTING of the VARIOUS STRATA.

Particulars obtainable from BOROUGH SURVEYOR (ARTHUR HAMILTON, B.Sc., M.I.C.E.), P.O. Box 17, Municipal Offices, Blackpool, on payment of £2 deposit.

BOROUGH OF SCARBOROUGH.

SOUTHERN OUTFALL SEWER RECONSTRUCTION.

STAGE 2.

TENDERS are invited for the CONSTRUCTION of a 78in. dia. thickened CONCRETE PIPE SEWER approx. 310 yd. long, to be laid in Open-cut along FORESHORE ROAD, and incidental works thereto. The whole of the works to be completed by 18th March, 1961.

Specifications, Bills of Quantities, Conditions of Contract, and Form of Tender may be obtained on payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender and the returnable documents. Drawings may be inspected at the Office of the undersigned.

Tenders, which should be enclosed in a plain sealed envelope endorsed "Tender for Southern Outfall Sewer Reconstruction," must be received by the undersigned not later than 10 a.m. on WEDNESDAY, 14th September, 1960.

V. FORSHAW, Borough Engineer and Surveyor.
Town Hall, Scarborough, August, 1960.

CITY OF LEICESTER.

LONDON ROAD (A.6) WIDENING.

CONDUIT STREET-PREBEND STREET.

TENDERS are invited from contractors with suitable experience for the WIDENING LONDON ROAD between Conduit Street and Prebend Street.

The works consist of Asphalt Surfacing on a Reinforced Concrete Slab in the new Carriageway Area, Making-up existing Carriageway, and Footpath Works.

Full details and Forms of Tender are obtainable from the undersigned on payment of One Guinea, refundable on receipt of a bona-fide Tender.

Tenders to be returned in the official envelope by 4.30 p.m., FRIDAY, 16th September, 1960.

JOHN L. BECKETT, M.I.C.E., City Surveyor.

Town Hall, Leicester.

CONTRACTS

BOROUGH OF BRIDPORT.

SKILLING HOUSING SITE.

ROADS AND SEWERS.

The COUNCIL are prepared to consider TENDERS from experienced contractors for the CONSTRUCTION of 1,730 sq. yd. approx. BITUMINOUS MACADAM CARRIAGEWAY; 535 lin. yd. approx. PRECAST CONCRETE KERB and CHANNEL, together with SURFACE WATER and FOUL WATER DRAINAGE, and ancillary works, at the ABOVE SITE.

Form of Tender, Specification and Bill of Quantities may be obtained upon application in writing, together with a deposit of £2 2s. (Two Guineas), from the Borough Engineer, Municipal Offices, South Street, Bridport.

Tenders should be returned to the undersigned, in plain sealed envelope endorsed "Skillington Roadworks," not later than SATURDAY, 24th September, 1960.

The Council are not bound to accept the lowest or any Tender.

F. C. M. FORWARD, Town Clerk.
Municipal Offices, Bridport.

BOROUGH OF KEIGHLEY.

SCOTT LANE WEST, RIDDLESDEN.

PRIVATE STREET WORKS.

TENDERS are invited from contractors for the MAKING-UP of the ABOVE STREET, approx. 128 yd. in length, with Tarmacadam on Limestone Carriageway, Flagged Footway and 9in. dia. Sewer.

Drawings and General Conditions of Contract may be seen at the Borough Engineer's Office, College Street, Keighley, during normal office hours. Specification and Bill of Quantities, which must be returned fully priced with the Form of Tender, will be forwarded on application to the Borough Engineer.

Sealed Tenders, on the official forms, and in the envelope provided, and endorsed "Scott Lane West P.S.W." must be submitted to the undersigned not later than 10 a.m. on MONDAY, the 12th September, 1960.

H. W. SMITH, Town Clerk.
Town Hall, Keighley.

BOROUGH OF LUTON.

PRIVATE STREET WORKS.

TENDERS are invited for the FINAL MAKING-UP of the FOLLOWING PRIVATE STREETS:

- (1) Arundel Road (Part);
- (2) Selbourne Road (Part);
- (3) Pembroke Avenue (Part) and Dordans Road (Part);
- (4) Wellgate Road (Part).

Tender documents, obtainable from Borough Engineer, Town Hall, Luton, on payment of £2 2s. deposit for each Contract, returnable on receipt of a bona-fide Tender not subsequently withdrawn. Cheques payable Luton Corporation.

Tenders to TOWN CLERK, Town Hall, Luton, by 12 Noon, MONDAY, 5th September, 1960.

BOROUGH OF PORT TALBOT.

BOROUGH ENGINEER'S DEPARTMENT.

NEW WOODWORKING MACHINERY.

TENDERS are invited for the SUPPLY of the FOLLOWING POWER-OPERATED WOODWORKING MACHINERY:

- (1) Mortising Machine to take chisels up to 1in.
- (2) Bandsaws with up to 1 1/2in. blade.

Tenders, with illustrations and Specifications, in plain envelope endorsed "Woodworking Machinery," to reach the undersigned by FRIDAY, 9th September, 1960.

W. KING DAVIES, Town Clerk.
Municipal Buildings, Port Talbot, 10th August, 1960.

BOROUGH OF WORKSOP.

STREET LIGHTING.

TENDERS are invited from bona-fide contractors for the REMOVAL of EXISTING STREET LIGHTING STANDARDS and for the SUPPLY, ERECTION and SERVICING of the UNDERMENTIONED STREET LIGHTING UNITS:

- 100 Sodium Lanterns, 140-W, mounted on 25ft. Steel Columns.

Tenderers may quote for: (1) Supplying only the Lanterns, Auxiliary Equipment and Lamps; or (2) the Removal of Existing Lighting Units and the Supply of New Standards, together with the Wiring and Fitting of All Equipment; or (3) the whole of the work required.

Copies of the Specification, Bills of Quantities and Forms of Tender may be obtained from the Borough Engineer, Park House, Worksop, upon payment of a deposit of £3 3s., which will be reimbursed upon the receipt of a bona-fide Tender and the return of all documents supplied.

Tenders, in sealed envelopes endorsed "Street Lighting," must reach the undersigned not later than Noon on FRIDAY, the 9th September, 1960.

The lowest or any Tender will not necessarily be accepted.

RUSSELL C. PHAROAH, Town Clerk.
Town Hall, Worksop, Notts.

EAST BARNET URBAN DISTRICT COUNCIL.

CONTRACT NO. 937.

CLEARING, GRADING AND SEEDING, ETC., OF AREAS AT OAK HILL PARK.

FIXED-PRICE TENDERS are invited for AGRICULTURAL WORKS, comprising the Clearing, Grading and Seeding of approx. 23 acres of Land within Oak Hill Park, together with ancillary works, including Shaping and Forming Batters to Banks, and Land Drainage.

Forms of Tender, Supplementary Conditions of Contract, Specification and Bill of Quantities may be obtained from the ENGINEER AND SURVEYOR, Town Hall, Station Road, New Barnet, Herts., upon payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender.

Tenders, sealed in the envelopes provided, must be received by not later than FRIDAY, 16th September, 1960.

The lowest or any Tender will not necessarily be accepted.

CONTRACTS

BOROUGH OF BASINGSTOKE.

ALTERATIONS AND ADDITIONS TO CORPORATION DEPOT, BASING ROAD.

TENDERS are invited for the CONSTRUCTION of BRICK or BLOCK WALLS, CONCRETE FLOORS, and other similar work, to Two Proposed Precast Concrete-framed Buildings with Asbestos-clad Roofs that are to be erected at the ABOVE DEPOT. The approx. areas of the Buildings are as follows: Building No. 1—4,800 sq. ft.; Building No. 2—1,800 sq. ft.

Specification, Bill of Quantities and Form of Tender may be obtained from the Borough Surveyor, Municipal Buildings, Basingstoke, on payment of a £2 2s. deposit, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn. Tenders must be delivered to the undersigned, in a plain sealed envelope endorsed "Tender for Depot Buildings," not later than Noon on MONDAY, 5th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

L. WOMERSLEY, Town Clerk.

Municipal Buildings,
London Road,
Basingstoke, Hants.

BOROUGH OF BASINGSTOKE.

PRECAST CONCRETE-FRAMED BUILDINGS—CORPORATION DEPOT, BASING ROAD.

TENDERS are invited for the SUPPLY and ERECTION of TWO PRECAST CONCRETE-FRAMED BUILDINGS, both of 40ft. span. Tenders are to include for Insulated Roofing and some Insulated Side-Cladding, but not for Brick or Block Panel Walls, Concrete Floors, and other ancillary building works. Specification and Form of Tender may be obtained from the Borough Surveyor, Municipal Buildings, Basingstoke, on payment of a £2 2s. deposit, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn. Tenders must be delivered to the undersigned, in a plain sealed envelope endorsed "Tenders for Precast Concrete-framed Buildings at Corporation Depot," not later than Noon on FRIDAY, 2nd September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

L. WOMERSLEY, Town Clerk.

Municipal Buildings,
London Road,
Basingstoke, Hants.

BOROUGH OF GUILDFORD.

HIGHWAYS ACT, 1959.

MAKING-UP OF (a) HENLEY BANK; (b) PENNINGS AVENUE; (c) ABBOT'S CLOSE.

TENDERS are invited for the MAKING-UP of the ABOVE PRIVATE STREETS, and for Works comprising (a) 1,000 sq. yd. of Asphalt Carriageway Surfacing and 540 lin. yd. of Concrete Edging; (b) 740 sq. yd. of Tarmacadam Footpath and 300 lin. yd. of Concrete Edging; (c) 900 sq. yd. of Tarmacadam Footpath and 360 lin. yd. of Kerbing, together with ancillary Works. Documents may be obtained from, and Drawings and Conditions of Contract inspected, at the Borough Engineer's Office, Municipal Buildings, High Street, Guildford. Tenders must be delivered, in the envelope provided, to the Town Clerk, at the Municipal Offices, not later than THURSDAY, 8th September, 1960.

The lowest or any Tender will not necessarily be accepted.

HERBERT C. WELLER, Town Clerk.

CATERHAM AND WARLINGHAM URBAN DISTRICT COUNCIL.

RESURFACING OF OLD, AND CONSTRUCTION OF NEW, FOOTPATHS.

TENDERS are invited for the RESURFACING of FOOTPATHS in BANSTEAD ROAD, Caterham, and the CONSTRUCTION of a NEW FOOTPATH in HILLBURY ROAD, Warlingham. The works include approx. 560 sq. yd. of Cold Asphalt Surfacing; 100 lin. yd. of Re-laid Kerbing; 650 sq. yd. of Hardcore and Hoggan Footpath Construction, and the Removal of approx. 450 cu. yd. of Earth.

Specifications, Bills of Quantities and Forms of Tender may be obtained from the Engineer and Surveyor, Council Offices, Caterham.

Tenders, enclosed in the endorsed envelope provided, should reach the undersigned not later than 4 p.m. on FRIDAY, 9th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

B. J. SMERDON, Clerk of the Council.

Council Offices,
Caterham, Surrey.

HALE URBAN DISTRICT COUNCIL.

STREET LIGHTING.

FIXED-PRICE TENDERS are invited for the INSTALLATION of 210 LAMPS, 15ft. mounting height, with Concrete Columns and Mercury Vapour Discharge Lighting on VARIOUS UNCLASSIFIED ROADS within the District.

Tendering documents and further information obtainable from the Engineer and Surveyor on payment of Two Pounds, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be in plain sealed envelopes endorsed "Tender—Lighting," and reach me by 1st September, 1960.

R. W. HORSFALL, Clerk of the Council.

Council Offices,
Hale, Cheshire.

WOODBRIDGE URBAN DISTRICT COUNCIL.

RELIEF SEWERS.

TENDERS on a Fixed-price Basis, are invited for the CONSTRUCTION of approx. 1,635 lin. yd. of 4in. to 15in. SEWERS and MANHOLES.

Specifications, Bills of Quantities and Forms of Tender can be obtained from, and Drawings and General Conditions of Contract examined at the Surveyor's Office, Eden Lodge, Woodbridge, during £2 2s., which will be refunded on receipt of a bona-fide Tender and the return of all documents.

Tenders, enclosed in a plain sealed envelope endorsed "Relief Sewers," but not bearing any name or mark to indicate the sender, addressed to the CLERK, Woodbridge Urban District Council, Eden Lodge, Woodbridge, to be received not later than Noon on MONDAY, 12th September, 1960.

CONTRACTS

LINDSEY COUNTY COUNCIL.

SHEFFIELD-GRIMSBY TRUNK ROAD, A.18 (SCUNTHORPE TO BRIGG SECTION).

HOLME-BROUGHTON—HIGHWAY IMPROVEMENTS ON THE TRUNK ROAD BETWEEN MORTAL ASH HILL AND JUNCTION WITH B.1208 TO CASTLETHORPE.

CONTRACTS FOR SITE CLEARANCE AND FENCING.

TENDERS are invited for the FOLLOWING:—

- (a) Clearing approx. 4½ Acres of Woodland, including Felling Trees, Grubbing Up Roots, Bushes, Hedges, etc., on Sites at New Forest Plantation, Holme, Ermine Street Cross Roads and Broughton Lane Plantation, Broughton.
- (b) The Supply and Erection of approx. 2,600 lin. yd. of Lincolnshire Fencing (Oak Posts and Ash Rails), Field Gates, etc.

Contract documents, Drawings, Form of Tender, etc., for either or both Contracts, obtainable from the County Surveyor, County Offices, Lincoln, to be returned in the endorsed envelope provided, bearing no name or mark indicating the sender, not later than 2nd SEPTEMBER, 1960.

The Council does not bind itself to accept the lowest or any Tender.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

TENDERS are invited for STRUCTURAL ALTERATIONS AND IMPROVEMENTS TO THE HOUSE BLOCK at the COUNTY WELFARE ESTABLISHMENT, THORNTON VIEW, Clayton.

Plans and Specifications are now available for inspection at the Office of the Divisional Architect, Flint Street, Huddersfield.

Applications to tender must be addressed to the Divisional Architect, Flint Street, Huddersfield, and received not later than 29th AUGUST, 1960.

Sealed Tenders must be addressed to me, the undersigned, and received at Room 5, County Hall, Wakefield, not later than 12 Noon on MONDAY, 12th September, 1960.

BERNARD KENYON, Clerk of the County Council.

BOROUGH OF CHATHAM.

ORDNANCE STREET REDEVELOPMENT AREA—STAGE 2—PERRY STREET AREA.

TENDER documents will shortly be available for the FOLLOWING DWELLINGS in the Ordinance Street Redevelopment Area:

- GROUP 1—12 One-bedroom Flats (3 Storeys); 10 Three-bedroom Houses.
- GROUP 2—2 Four-bedroom Houses.

Contractors who wish to tender for one or both groups are invited to submit their names, not later than 1st SEPTEMBER, 1960, to MR. J. A. T. RICHARDS, Borough Engineer and Surveyor, stating the group they wish to tender for, and enclosing a deposit of Two Guineas for each group, which will be returned on receipt of bona-fide Tender or Tenders.

Tenders, which will be considered separately, must be received by the undersigned not later than Midday on MONDAY, 3rd October, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ROWLAND NEWNES, Town Clerk.

Town Hall,
Chatham,
August, 1960.

BOROUGH OF EAST RETFORD.

IMPROVEMENT OF DRESSING ACCOMMODATION AT THE PUBLIC BATHS.

TENDERS are invited from specialist contractors for the ABOVE WORK, comprising the Construction of 24 TERRAZZO DRESSING CUBICLES, together with the Laying of approx. 86 sq. yd. of Floor Tiling. Specifications obtainable from Borough Surveyor, Municipal Offices, Retford.

Tenders, endorsed "Baths," to be delivered to the undersigned not later than Noon on the 12th SEPTEMBER, 1960.

K. D. HANNA, Town Clerk.

Municipal Offices,
Retford,
12th August, 1960.

WOKING URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS.

HERMITAGE ESTATE (PART).

TENDERS are invited for the ABOVE CONTRACT. Approx. 2,500 sq. yd. of Roadworks, 850 lin. yd. of Kerbing, and 2,700 sq. yd. of Bitumen Macadam and Asphalt Footways, and ancillary works.

Tender documents from Engineer and Surveyor on receipt of Two Guineas deposit, refundable only on receipt of bona-fide Tender not subsequently withdrawn.

Plans seen normal office hours at Engineer's Office. Tenders to CLERK OF THE COUNCIL by 8.45 a.m., MONDAY, 5th September, 1960.

Council Offices,
Guildford Road,
Woking, Surrey.

CANNOCK URBAN DISTRICT COUNCIL.

- (a) GROUP "A" LIGHTING SCHEME FOR ROUTE 8.5013, STATION ROAD, HEDNESFORD.
- (b) GROUP "B" LIGHTING SCHEME FOR VARIOUS ROADS THROUGHOUT THE URBAN DISTRICT.

FIXED-PRICE TENDERS are invited for the ABOVE SCHEMES which in the case of Scheme (a) comprise the Supply, Erection and Wiring-up complete of 23 140-W Sodium Lamps and One 3 x 80-W Fluorescent Lamp, on and including 25ft. mounting height, Concrete Columns; and in the case of Scheme (b) the Supply, Erection and Wiring-up complete of 50 100-W Tungsten Lamps on, and including, New or Existing Columns in various Roads throughout the Urban District.

Documents may be obtained from the Council's Engineer and Surveyor, EDWIN LOMAX, A.M.I.C.E., Council House, The Green, Cannock, Staffs., upon receipt of a deposit of £2 2s., which will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelope endorsed "Street Lighting," but bearing no name or mark indicating the sender, are to be received by the undersigned not later than Noon on 29th AUGUST, 1960.

H. C. ALLEN, Clerk of the Council.

Council House,
Cannock, Staffs.,
11th August, 1960.

CONTRACTS

COUNTY OF CORNWALL.

NOTICE is hereby given of the intention to LET SEPARATELY the SUB-CONTRACTS for (a) STRUCTURAL STEELWORK, and (b) METAL WINDOWS, in connection with the Erection of a Catering and Women's Block at the CORNWALL TECHNICAL COLLEGE, Trevenston, Pool, Redruth.

Applications are invited for permission to TENDER for these Sub-Contracts, and should be made to the County Architect, County Hall, Truro, not later than THURSDAY, 1st September, 1960, from which a selected number of firms will be invited to tender.

The closing date for receipt of Tenders will be notified when the documents are dispatched.

The lowest or any Tender will not necessarily be accepted, nor will the County Council pay to contractors any fees or expenses incurred in the preparation of Tenders.

E. T. VERGER, Clerk of the County Council.

County Hall,
Truro,
10th August, 1960.

SURREY COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPT.

The above Council invite TENDERS for CARRYING OUT approx. 8,000 cu. yd. of BULK EXCAVATION and HAULAGE, with ancillary works, at WINK-WORTH HILL, Hascombe.

Documents obtainable from COUNTY ENGINEER, Highways and Bridges Dept., County Hall, Kingston-upon-Thames, returnable by SATURDAY, 10th September, 1960.

BOROUGH OF RAWTENSTALL.

ERECTION OF NEW MORTUARY—RAWTENSTALL CEMETERY—BURNLEY ROAD, RAWTENSTALL.

TENDERS are invited for the ERECTION of the NEW MORTUARY in the FOLLOWING TRADES:—

- Excavator.
- Concrete.
- Bricklayer and Mason.
- Drainlayer.
- Slater.
- Carpenter and Joiner.
- Plaster.
- Plumber and Glazier.
- Electrician.

Contractors may Tender for individual or all trades. Copies of the Bills of Quantities and Form of Tender may be obtained from the Borough Engineer and Surveyor, Town Hall, Rawtenstall, Rossendale, on payment of Two Guineas, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn and the return of all documents as required.

The General Conditions of Contract and Contract Drawings may be inspected at the Borough Surveyor's office during normal working hours.

Tenders, on the form supplied, must be delivered to the undersigned not later than Noon on MONDAY, 19th September, 1960, in the envelope provided.

The Council do not bind themselves to accept the lowest or any Tender.

(Signed) COLIN CAMPBELL, Town Clerk.

Town Hall,
Rawtenstall,
Rossendale,
Lancs.,
12th August, 1960.

WILLENHALL URBAN DISTRICT COUNCIL.

FENCING AND GATES.

TENDERS are invited from fencing contractors for the PROVISION AND ERECTION of 1,208 lin. yd. of 6ft. high CHAIN LINK FENCING on Precast Concrete Posts, with Five SETS of 12ft. wide GATES.

Specification, Form of Tender and other necessary documents may be obtained from the Office of the Engineer and Surveyor.

Tenders, in plain sealed envelopes endorsed "Fencing at Essington Road," are to be returned to the undersigned not later than Noon on SATURDAY, 10th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN R. RIDING, Clerk of the Council.

Town Hall,
Willenhall, Staffs.

NEWMARKET RURAL DISTRICT COUNCIL.

FORDHAM SEWERAGE SCHEME.

CONTRACTS 1, 2 AND 3.

TENDERS are invited for the FOLLOWING CONTRACTS:—

- (1) The Laying of 8,300 yd. of 6in., 9in. and 12in. dia. Sewers, 3,100 yd. of 4in. and 6in. dia. Rising Mains, the Construction of Three Pumping Stations at Fordham, and Extensions to the Existing Sewage Disposal Works at Soham.
- (2) The Supply and Erection of Duplicate 250-g.p.m. Pumping Equipment in No. 1 Pumping Station, Fordham.
- (3) The Supply and Erection of Duplicate 40-g.p.m. Ejector Machinery in the Ejector Station, Fordham.

The village of Fordham is situated approximately four miles to the north of Newmarket. Soham is approximately two miles north of Fordham.

Contractors wishing to Tender should apply to the Council's Consulting Engineers, J. H. HAISTE AND PARTNERS, 44-46 Bridge Street, Peterborough, enclosing a deposit cheque, value Three Guineas, in respect of each Contract, and make payable to the Newmarket Rural District Council, such deposit to be refunded on receipt of a bona-fide Tender and the return of the documents.

Drawings may be inspected at either the Council Offices or the Consulting Engineer's Office.

Tenders should be submitted to the undersigned not later than 12 Noon on SATURDAY, 17th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. W. EVANS, Clerk of the Council.

Council Offices,
Park Lane,
Newmarket,
Suffolk.

CONTRACTORS and SUPPLIERS interested in contracts in Co. Durham.—Contact "Thysen," Wesley House, Coombe Road, New Malden, Surrey.

For Contracts received too late for classification see page 769

APPOINTMENTS VACANT

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

APPOINTMENT OF BUILDING INSPECTOR.

APPLICATIONS are invited for the APPOINTMENT of BUILDING INSPECTOR at a salary in accordance with Grade A.P.T. II (£765-£880 per annum). Candidates should have had experience in a similar capacity and should have a good knowledge of building bye-laws and town planning procedure. Preference will be given to applicants holding the Building Inspector's Certificate of the Institution of Municipal Engineers. The Council will meet reasonable removal expenses and afford assistance in housing in suitable cases.

Applications, stating age, education, qualifications, experience, past and present appointments, and giving the names of two referees, should be sent to the Borough Engineer, Surveyor and Town Planning Officer, T. B. HILL, M.I.C.E., M.I.Mun.E., A.M.I.W.E., to arrive not later than 6th SEPTEMBER, 1960.

ARCHIBALD GLEN,
Town Clerk.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

APPOINTMENT OF TWO TOWN PLANNING ASSISTANTS.

APPLICATIONS are invited for TWO APPOINTMENTS of TOWN PLANNING ASSISTANTS at salaries in accordance with Grade A.P.T. IV (£1,065-£1,220 per annum).

Applicants should be Corporate Members of either the Town Planning Institute, the Royal Institution of Chartered Surveyors or the Institution of Municipal Engineers, and must have had experience in all aspects of town planning work. The Council will meet reasonable removal expenses and afford assistance in housing in suitable cases.

Applications, stating age, education, qualifications, experience, past and present appointments, and giving the names of two referees, should be sent to the Borough Engineer, Surveyor and Town Planning Officer, T. B. HILL, M.I.C.E., M.I.Mun.E., A.M.I.W.E., to arrive not later than 6th SEPTEMBER, 1960.

ARCHIBALD GLEN,
Town Clerk.

COUNTY BOROUGH OF DEWSBURY.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

CLERK OF WORKS AND REINSTATEMENT INSPECTOR.

APPLICATIONS are invited for the ABOVE APPOINTMENT, at a salary according to Grade A.P.T. II, £765-£880.

Applicants should be experienced in the supervision, setting out and measurement of civil engineering works, including main drainage, sewerage, road construction and reinforced concrete. The successful applicant may be required to work normal contractor's hours. Candidates must hold an Intermediate City and Guilds Certificate in a craft or be an Associate Member of the Institution of Clerks of Works or have an equivalent qualification. Applicants must also have served an apprenticeship as a craftsman and have considerable experience as a general foreman or clerk of works on large contracts.

The successful applicant will be required to hold a driving licence. The Corporation will provide transport or, in an appropriate case, an essential user car allowance may be made. Housing accommodation will be available, if required. Appointment subject to medical examination and superannuation.

Applications, giving all details of present and previous appointments, with the names of two referees, are to be sent not later than MONDAY, 29th August, 1960, to the undersigned.

A. NORMAN JAMES,
Town Clerk.

Town Hall,
Dewsbury,
4th August, 1960.

COUNTY BOROUGH OF HUDDERSFIELD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENTS are invited for the FOLLOWING POSITIONS:

- (a) Senior Assistant Engineer, Grade A.P.T. IV (£1,065-£1,220).
- (b) Assistant Engineer, Special Grade (£785-£1,070), commencing salary according to experience.
- (c) Engineering Assistant, Grade A.P.T. II (£765-£880).
- (d) Engineering Assistant, Grade A.P.T. I (£610-£765).

Applicants for positions (a) and (b) should be Associate Members of the Institution of Civil Engineers or the Institution of Municipal Engineers, and for position (a), should have experience of design and construction of reinforced concrete.

Applicants for position (c) should have passed the Intermediate Examination of the Institution of Civil Engineers or the Institution of Municipal Engineers, or be University Graduates and applicants for position (d) should have completed their professional training in municipal engineering.

All the appointments are superannuable and subject to medical examination.

Applications, giving age, experience, and the names of not more than three referees, should reach A. L. PERCY, M.I.C.E., Borough Engineer and Surveyor, High Street Buildings, Huddersfield, not later than MONDAY, the 29th August, 1960.

Canvassing is prohibited and will be considered a disqualification.

HARRY BANN,
Town Clerk.

Town Hall,
Huddersfield,
August, 1960.

BURGESS HILL URBAN DISTRICT COUNCIL.

CLERK OF WORKS.

APPLICATIONS are invited for the APPOINTMENT of CLERK OF WORKS for miscellaneous capital works at salary in accordance with Miscellaneous Division Scale Grade VI, commencing at £715 per annum. Should the person appointed make available a private car for business purposes, a casual user allowance will be made.

Candidates must have had experience in a similar capacity, possess a thorough knowledge of building and civil engineering construction, and preferably should have been craftsmen.

The appointment is a temporary one. Form of Application, obtainable from undersigned, to be returned not later than Noon on SATURDAY, the 10th September, 1960.

STANLEY JEFFS,
Clerk of the Council.

Council Offices,
Burgess Hill,
Sussex.

APPOINTMENTS VACANT

NORFOLK COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

APPLICATIONS are invited for the UNDER-MENTIONED APPOINTMENT:

First Assistant Divisional Surveyor, in Division No. 2 (Headquarters at King's Lynn). Salary Scale—Special (£785-£1,070 p.a.). Starting point on scale according to qualifications and experience.

Preference will be given to candidates holding Associate Membership of the Institutions of Civil Engineers, Municipal Engineers or Highway Engineers. Experience in a Divisional Surveyor's Office of a County Council is essential, and experience in other departments of highway engineering work, in addition, would be an advantage.

A motor car is essential, and the appointed officer will be paid an essential user's car allowance in accordance with the recommendations of the National Joint Council, as adopted and applied from time to time by the County Council. A loan is available for purchase if required.

The appointment will be on the permanent establishment of the Department, terminable by one month's notice on either side. The Provisions of the Local Government Superannuation Acts, 1937 to 1953, apply. The successful candidate will be required to pass a medical examination.

Grant towards removal expenses.

The National Joint Service Conditions apply in general.

Further particulars and Application Forms obtainable from COUNTY SURVEYOR, County Offices, Norfolk County Council, Thorpe Road, Norwich, Norfolk, NR4 4TA.

Latest date for completed Application Forms: 9th SEPTEMBER, 1960.

BOROUGH OF WILLESDEN.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS in the Building Surveyor's Section:

- (a) General Assistants (Two Posts), within Grade A.P.T. II (£765-£880 p.a.).
- (b) General Assistant, within Grade A.P.T. I (£610-£765 p.a.).

London Weighting is payable in addition to both above salaries.

Applicants should have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors, or equivalent, and have had experience in the general work of a Building Surveyor's Office and the administration of Building By-laws and the Town Planning Acts.

For one of the (a) posts, experience of dealing with the control of advertisements will be an advantage.

The Council are unable to assist with housing accommodation.

Details and Form of Application obtainable from the BOROUGH ENGINEER, Town Hall, Dyne Road, Kilburn, N.W.6, and must be returned by 10 a.m. on THURSDAY, 1st September, 1960.

BOROUGH OF WILLESDEN.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the PERMANENT APPOINTMENT of TECHNICAL ASSISTANT. Salary within A.P.T. II (£765-£880 p.a.) plus London Weighting.

Applicants should have passed the Intermediate Examination of the Institution of Municipal Engineers, or equivalent, and have had work experience in the supervision and administration of minor civil engineering works undertaken by direct labour and contract.

The Council are unable to assist with housing accommodation.

Details and Form of Application obtainable from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6, and must be returned to the undersigned not later than 10 a.m. on THURSDAY, 1st September, 1960.

(Signed) R. S. FORSTER,
Town Clerk.

BOROUGH OF WILLESDEN.

APPLICATIONS are invited from suitably qualified and experienced persons for the FOLLOWING PERMANENT APPOINTMENTS:

- (a) Senior Engineering Assistant, within A.P.T. I (£610-£765 p.a.).
- (b) Engineering Assistant, within A.P.T. Special Grade (£785-£1,070 p.a.).
- (c) Engineering Assistant, within Grade A.P.T. II (£765-£880 p.a.).
- (d) Engineering Assistant, within Grade A.P.T. I (£610-£765 p.a.).

For all posts except (a) above, London Weighting is payable in addition to the salaries shown.

There is no age limit, but for post (a) above, preference will be given to candidates having above average experience in structural engineering or sewerage or highway works.

The Council are unable to assist with housing accommodation.

Forms of Application and Conditions of Appointment may be obtained from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6. Applications to be returned to the undersigned not later than THURSDAY, 1st September, 1960.

When writing for Application Forms, candidates must state for which appointment they wish to apply.

(Signed) R. S. FORSTER,
Town Clerk.

CITY OF OXFORD.

WATER UNDERTAKING.

APPOINTMENT OF ENGINEERING ASSISTANTS.

Two vacancies, at a salary within A.P.T. Grade IV (£1,065-£1,220) or Special Grade (£785-£1,070), depending on qualifications and experience. Permanent, pensionable posts; medical examination. Waterworks experience an advantage, but not essential. Applicants should hold a university degree in engineering and/or be Associate Members of the Institution of Civil Engineers.

The Council has on hand an extensive programme of capital works, including the design and construction of a new main source works, reservoirs, pumping plant and large diameter mains.

Housing accommodation may be provided, if required, and a car allowance is applicable to these appointments.

A five-day week is operated.

Applications, stating age, qualifications, present and past positions, present salary and experience, together with the names of two referees, to the City Water Engineer, 65 St. Aldate's, Oxford, by 26th AUGUST, 1960.

HARRY FLOWMAN,
Town Clerk.

Town Hall,
Oxford.

APPOINTMENTS VACANT

CITY OF CARDIFF.

CORPORATION WATERWORKS.

APPOINTMENTS OF ENGINEERING ASSISTANTS.

APPLICATIONS are invited for the FOLLOWING PERMANENT APPOINTMENTS:—

- (a) Mechanical Engineering Assistant, Grade A.P.T. IV, £1,065-£1,220 per annum.
- (b) Junior Engineering Assistant, Grade A.P.T. II, £765-£880 per annum.

Candidates for post (a) must be Associate Members of the Institution of Mechanical Engineers. Preference will be given to candidates who have had experience of pumping installations.

Candidates for post (b) must have completed professional training and have passed Parts A and B of the examination of the Institution of Civil Engineers, or possess a university degree in civil engineering.

General Conditions of Appointment can be obtained from the Water Engineer and Manager, Municipal Buildings, Greyfriars Road, Cardiff, and applications, together with the names of two referees, should reach the undersigned, in envelopes appropriately endorsed, on or before TUESDAY, 30th August, 1960.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff,
July, 1960.

CITY OF SHEFFIELD.

SEWAGE DISPOSAL DEPARTMENT.

APPOINTMENT OF ENGINEERING ASSISTANT—GRADE S.C.

APPLICATIONS are invited for the ABOVE APPOINTMENT on the PERMANENT STAFF of the Sewage Disposal Department (IAS. H. EDMONDSON, M.I.Mech.E., M.I.Chem.E., General Manager and Engineer).

Preference will be given to applicants who have had experience in the design and construction of general civil engineering work of a municipal or public works character.

The salary will be in Grade S.C. (£785-£1,070 p.a.) and the point of entry will depend upon qualifications and experience.

Housing accommodation for the successful applicant is available if required.

The appointment is superannuable, subject to N.J.C. Conditions of Service, and medical examination.

Applications, stating age, education, training, qualifications, details of past and present appointments, and giving names of two referees, should reach the undersigned not later than MONDAY, 5th September, 1960.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1.

HAVANT AND WATERLOO URBAN DISTRICT COUNCIL.

(Population 72,000 approx. Area 13,795 Acres.)

APPLICATIONS are invited for the APPOINTMENT of PRIVATE STREET WORKS ASSISTANT in the Engineer and Surveyor's Department, to be engaged primarily on the Council's extensive programme of making-up private streets.

The salary will be £1,065 in accordance with the maximum point of Grade A.P.T. III (£880-£1,065).

Housing accommodation will be provided for married applicants if required; assistance given towards the cost of removal expenses; and consideration given to the payment of a car allowance. Havant and Waterloo is a rapidly expanding South Coast district which includes Havant, Waterlooville, Emsworth and the seaside resort of Hayling Island. Application Forms and further particulars may be obtained from the ENGINEER AND SURVEYOR, 1 Park Road North, Havant, to whom they should be returned not later than 26th AUGUST, 1960.

LEEK RURAL DISTRICT COUNCIL.

EASTERN PARISHES WATER SUPPLY—SECTION A—PART 2.

APPLICATIONS are invited for the APPOINTMENTS of INSPECTORS to supervise the construction of mass concrete reservoirs and the laying of several miles of water mains under the direction of a Resident Engineer and of the Council's Consulting Engineers, MESSRS. WILCOX, RAIKES AND MARSHALL, 33 Great Charles Street, Birmingham, 3.

Applicants must have had good experience of concrete reservoir construction and water main laying and be well acquainted with the duties of an Inspector, and will be required to provide a car for which an allowance will be paid. The appointment will be subject to satisfactory service and will be terminated by one month's notice on either side.

Applications in writing, with full particulars of age, experience, previous similar appointments, and when disengaged, stating salary, allowances and travelling expenses required, with the names of two referees, or copies of two recent testimonials, should be sent to the undersigned not later than MONDAY, 22nd August, 1960.

(Signed) M. DANIELS,
Clerk of the Council.

6 Russell Street,
Leek,
5th August, 1960.

AMMAN VALLEY JOINT SEWERAGE BOARD.

RESIDENT ENGINEER.

APPLICATIONS are invited by the above Board from suitably experienced and qualified Engineers for the POST of RESIDENT ENGINEER to supervise the execution of Contracts for sewerage and sewage disposal.

The appointment, which will be of approximately four years' duration, subject to satisfactory service, will be at a salary at £1,350 per annum. A car allowance at the rate of £104 per annum will be paid. The appointment is subject to the Local Government Conditions of Service and the Superannuation Acts, and may be terminated by one month's notice on either side. Assistance with housing may be offered in special circumstances.

The work, scheduled to start early in November, will be under direction of the Board's Consulting Engineers, MESSRS. C. D. C. BRAINE AND PARTNERS, 26-27 St. Mary Street, Cardiff.

Applications, stating age, qualifications, experience and date when available, together with the names of at least two professional persons to whom reference may be made, should be submitted to the undersigned not later than 1st September on THURSDAY, the 1st September, 1960.

M. H. EVANS,
Clerk of the Board.

49 College Street,
Ammanford, Carmarthen,
August, 1960.

APPOINTMENTS VACANT

CENTRAL ELECTRICITY GENERATING BOARD.

NORTHERN PROJECT GROUP.

THIRD ASSISTANT ENGINEER (Civil) REQUIRED at Project Group Headquarters, Agceroft, Manchester. Salary range £1,285-£1,610 per annum. Applicants must be competent Quantity Surveyors with experience in taking-off, billing, site measurement, and agreement of final certificates for power stations or similar works. Membership, or qualification leading to membership, of an appropriate professional institution will be an advantage. Application Forms available from ADMINISTRATIVE OFFICER, Central Electricity Generating Board, Northern Project Group, Agceroft Road, Pendlebury, Swinton, Manchester, to be returned by 23rd AUGUST, 1960, quoting Ref. N57 C.

STAFFORDSHIRE COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS, which are in connection with the supervision of Motorway Contract Works: Senior Resident Engineer—Salary £1,550 p.a. Resident Engineer (Roads)—Salary £1,425 p.a. Assistant Resident Engineer (Bridges)—Salary £1,100-£1,200 p.a. Assistant Resident Engineer (Roads)—Salary £1,100-£1,200 p.a.

Applicants must be qualified Engineers and have had the appropriate experience on the supervision of major constructional works.

Quantity Surveyors—Salary £1,425 p.a. Applicants must be qualified and fully conversant with the standard method of measurement on civil engineering contracts, and have detailed knowledge with regard to payments made on interim and final measurements.

Site Laboratory Staff—Assistants—Salary £1,100 p.a. Applicants must have the necessary technical and practical experience to deal with laboratory aspects of control, particularly the testing of soils and road materials.

Clerk of Works—Salary £900-£1,000 p.a. Applicants must have had previous experience on large constructional works, preferably of a structural character or on major road schemes.

The County Council have approved a scale of overtime payments for week-end work, in addition to the standard salaries.

The appointments are superannuable, and the County Council will, for a period of six months, grant a lodging allowance of 35s. per week and second-class return railway fare home every two months during that period to the successful candidate, if married and maintaining a home outside the geographical county. The Council will also consider granting financial assistance towards any expenses reasonably incurred in connection with the removal of a successful applicant's furniture and household goods.

Canvassing of members of the Council or any Committee of the Council, directly or indirectly, will be a disqualification for appointment.

Applications on the appropriate forms, which can be obtained from the County Surveyor, County Buildings, Stafford, should reach him not later than 14 days after the date of publication of this advertisement.

T. H. EVANS,

Clerk of the County Council.

County Buildings,
Stafford.

COUNTY BOROUGH OF BRIGHTON.

CLERK OF WORKS (temporary staff) required for a period of approximately two years on the erection of a new college of technology. The building will be of reinforced concrete, and will include a wide range of specialised services, and is expected to cost about £1,000,000.

It is essential that applicants have had experience on large contracts of similar construction.

Salary £16-£20 per week, according to experience. Appointment terminable by one month's notice on either side. Canvassing will disqualify.

Applications, giving full particulars, including age, experience, etc., to D. J. HOWE, ESQ., M.I.C.E., M.I.Mun.E., Borough Surveyor, Engineer and Planning Officer, 26-30 King's Road, Brighton, by Noon on the 7th SEPTEMBER, 1960.

W. O. DODD,

Town Clerk.

Town Hall,
Brighton.

11th August, 1960.

BOROUGH OF CROSBY.

APPOINTMENT OF BOROUGH ENGINEER AND SURVEYOR.

APPLICATIONS are invited for the APPOINTMENT OF BOROUGH ENGINEER AND SURVEYOR at a salary within the scale laid down by the Joint Negotiating Committee for Chief Officers of Local Authorities having a population between 45,000 and 60,000.

When fixing the commencing salary (which will be not less than £1,865 per annum), the Council will have regard to the qualifications, service and experience of the successful candidate.

Applicants must be Corporate Members of the Institution of Civil Engineers and/or the Institution of Municipal Engineers, with considerable experience in municipal engineering.

The appointment will be subject to two months' notice on either side. Particulars and Approved Conditions of Appointment and Service can be obtained on application to the undersigned, by whom all applications must be received by Noon on FRIDAY, the 2nd September, 1960.

Canvassing will disqualify.

HAROLD O. ROBERTS,

Town Clerk.

Town Hall,
Waterloo.

Liverpool, 22.

BOROUGH OF WANSTEAD AND WOODFORD.

ASSISTANT WORKS SUPERINTENDENT, A.P.T. II (£765-£880, plus London Weighting).

APPLICATIONS are invited for the ABOVE ESTABLISHED APPOINTMENT. Preference will be given to applicants with previous municipal experience, particularly on highways and sewerage work.

Forms obtainable from the undersigned, and to be returned to the BOROUGH ENGINEER, Municipal Offices, Woodford, E.18, by First Post on MONDAY, 29th August, 1960. A subsistence allowance will be paid at the rate of £2 per week for such time as the successful candidate is without suitable accommodation.

APPOINTMENTS VACANT

COUNTY BOROUGH OF GRIMSBY.

CONSTRUCTION OF INDOOR SWIMMING POOL.

APPOINTMENT OF CLERK OF WORKS.

The Corporation invites APPLICATIONS from experienced persons for the APPOINTMENT of a TEMPORARY CLERK OF WORKS, required in connection with the construction of a new indoor swimming pool and other appurtenant works. The Consulting Engineers are MESSRS. OSCAR FABER AND PARTNERS, London.

The duration of the work will be approximately 18 months, and the applicants must be experienced in carrying out works of an important nature, comprising reinforced concrete, structural steelwork and general building work of this type, together with the installation of mechanical and other services.

The salary to be paid is £1,200 per annum. Applications, together with the names and addresses of two referees, to be forwarded to the undersigned not later than MONDAY, the 5th September, 1960.

J. V. OLDFIELD,

M.Inst.C.E.,

Borough Engineer and Surveyor.

Municipal Office,
Town Hall Square,

Grimsby.

August, 1960.

BOROUGH OF ENFIELD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF JUNIOR ENGINEERING ASSISTANT.

(Population approx. 110,000; Area 12,400 acres.)

APPLICATIONS are invited for the ABOVE PERMANENT APPOINTMENT, at a salary in accordance with Grade A.P.T. I of the National Scheme of Conditions of Service (£610-£765 per annum, with the addition of London Weighting of £15-£40 per annum, according to age). Commencing salary will be fixed at a point within the scale commensurate with qualifications and experience.

Applicants should have completed their professional training under the scheme for the training of municipal engineers. Opportunity will be afforded to gain experience in all phases of municipal engineering.

Saturday mornings are normally free of duty. Application forms, obtainable from MR. H. D. PEAKE, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middx., must be delivered to the undersigned not later than MONDAY, 5th September, 1960.

CYRIL E. C. R. PLATTEN, LL.B., Town Clerk.

Public Offices,
Enfield.

Middx.

CITY OF NOTTINGHAM.

CITY ENGINEER'S DEPARTMENT.

ASSISTANT QUANTITY SURVEYOR, GRADE A.P.T. IV.

(£1,065-£1,220 PER ANNUM).

APPLICATIONS are invited for the ABOVE POSITION.

Applicants should be associates of the Royal Institution of Chartered Surveyors or have extensive professional experience.

The person appointed will be required to be responsible for all the quantity surveying work on individual major contracts.

Commencing salary will depend on experience. Assistance with housing may be given.

Applications are to be made on forms to be obtained from R. M. FINCH, ESQ., O.B.E., M.I.C.E., City Engineer and Surveyor, Guildhall, Nottingham, to whom they should be returned not later than 31st AUGUST, 1960.

CITY OF NOTTINGHAM.

WATER DEPARTMENT.

APPOINTMENT OF TWO GRADE A.P.T. V CIVIL ENGINEERING ASSISTANTS.

APPLICATIONS for the ABOVE PERMANENT, PENSIONABLE APPOINTMENTS are invited from engineering graduates, and/or corporate members of the Institution of Civil Engineers with five years' engineering experience, preferably with a water undertaking. The department has in hand a varied programme of new works, estimated to cost £1.1m., offering considerable opportunities for gaining valuable experience. Salary, dependent upon qualifications and experience, £1,220 x £55 x £50 (2)—£1,375.

Applications, with names of two persons to whom reference may be made, to Engineer and General Manager, Water Department, Castle Boulevard, Nottingham, not later than 31st AUGUST, 1960.

T. J. OWEN,

Town Clerk.

The Guildhall,
Nottingham.

THORNTON CLEVELYS URBAN DISTRICT COUNCIL.

BUILDING FOREMAN.

APPLICATIONS are invited for the POSITION OF BUILDING FOREMAN, to take charge of all tradesmen employed by the Council and to be responsible for the repair and maintenance of Council properties.

Further details may be obtained from the Engineer and Surveyor.

Applications, stating age and experience, to be made to J. E. PORTER, ESQ., A.M.I.C.E., A.M.I.Mun.E., Engineer and Surveyor, Council Offices, Thornton Clevelys, not later than SATURDAY, 3rd September, 1960.

J. RONALD WYLDE,

Clerk of the Council.

Council Offices,
Thornton Clevelys,

Blackpool.

August, 1960.

THAMES VALLEY WATER BOARD.

APPLICATIONS are invited for the APPOINTMENT of an ENGINEERING ASSISTANT, at a salary within the Special Grade for Engineering and Surveying Assistants, i.e., £785-£1,070 per annum.

Applicants should be chartered civil engineers with some years of experience of water supply engineering. Appointment subject to the National Scheme of Conditions of Service, the Provision of the Local Government Superannuation Acts, 1937-53, and the passing of a medical examination.

Applications, stating age, qualifications and experience, together with the names and addresses of two referees, should reach the undersigned by the 29th AUGUST, 1960.

G. F. DARLOW,

Clerk to the Board.

Town Hall,
Reading.

APPOINTMENTS VACANT

HAMPSHIRE COUNTY COUNCIL.

ENGINEERING ASSISTANT, A.P.T. IV (£1,065-£1,220) REQUIRED for PENSIONABLE POST in County Surveyor's Department.

Applicants must be qualified and have experience in the design and preparation of working drawings for bridge construction schemes, and their supervision. Separation allowances and assistance with removal expense in approved cases.

Application Forms (send s.a.e.), returnable by 31st AUGUST, from CLERK OF THE COUNTY COUNCIL, The Castle, Winchester.

COUNTY BOROUGH OF SWANSEA.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ENGINEERING ASSISTANT, GRADE IV.

(£1,065-£1,220).

APPLICATIONS are invited for the POST of GENERAL ENGINEERING ASSISTANT, Grade A.P.T. 4.

Applicants must have had considerable experience in general civil engineering works, particularly in road and sewer design. Previous experience in a municipal office is desirable but not essential. Candidates should have passed the Final Examination of the Institution of Civil Engineers or the Institution of Municipal Engineers, and have at least five years' practical experience. A university degree in engineering will be an advantage.

Housing accommodation will be provided, if required. The appointment is subject to one month's notice on either side, to the Local Government Superannuation Acts, and to the successful candidate passing a medical examination.

Form of application may be obtained from the Borough Engineer and Surveyor, Guildhall, Swansea. Applications, accompanied by two recent testimonials, must be delivered to him before FRIDAY, 26th August, 1960.

IOWERTH J. WATKINS,

Town Clerk.

The Guildhall,
Swansea.

WEST BRIDGFORD URBAN DISTRICT COUNCIL.

ENGINEERING ASSISTANTS.

APPLICATIONS are invited for the FOLLOWING PERMANENT APPOINTMENTS in the Engineer and Surveyor's Department:—

(1) Engineering Assistant, Salary Grade A.P.T. II of N.I.C. Scales.

(2) Engineering Assistant, Salary Grade A.P.T. I of N.I.C. Scales.

Applicants for either position should have completed an approved course of training in a municipal engineer's office and have made progress towards qualifying for the final examinations of either the Institution of Municipal or Civil Engineers, and in the case of appointment (1) should have had at least two years' additional practical experience.

Further particulars and forms of application may be obtained from the Engineer and Surveyor, The Hall, West Bridgford, Nottingham, to whom applications should be addressed, as to be received not later than 10th SEPTEMBER, 1960.

Housing accommodation for married appointees can be arranged.

The appointments will be subject to the provisions of the Local Government Superannuation Acts, to the passing of a medical examination, and the National Joint Council Scheme of Conditions of Service, and to one month's notice on either side.

A. G. MANSFIELD,

Clerk of the Council.

The Hall,
West Bridgford,

Nottingham.

9th August, 1960.

NEWQUAY URBAN DISTRICT COUNCIL.

ASSISTANT RESIDENT ENGINEER.

The Council invite APPLICATIONS for the POST of ASSISTANT to the RESIDENT ENGINEER for stage I of the Town Outfall Scheme, which comprises the construction of about 4,000ft. of concrete-lined trunk sewer in tunnel, together with access shafts, sea outfall, and ancillary works. The scheme is being carried out under the direction of the Council's Consulting Engineer.

Applicants should preferably have experience of sewerage work, and knowledge of tunnelling operations would also be an advantage. They should be competent in surveying and levelling, measuring up, and the keeping of records. Consideration would also be given to applications from graduate engineers seeking site experience.

The appointment is temporary, but will extend over a period of about 12 months.

Salary will be in accordance with A.P.T. Grade II (£765-£800 per annum), and the appointment may be terminated by one month's notice in writing on either side.

Applications, marked "Assistant Resident Engineer," and giving age, qualifications, experience and date available, together with the names of two referees, should reach the undersigned not later than SATURDAY, 3rd September, 1960.

F. H. SMITH,

Clerk of the Council.

Municipal Offices,
Newquay,

Cornwall.

TYNE IMPROVEMENT COMMISSION.

APPOINTMENT OF ASSISTANT ELECTRICAL ENGINEER.

APPLICATIONS are invited for the POSITION of ASSISTANT ELECTRICAL ENGINEER, under the Commissioners' Electrical Engineer, in their dock and harbour undertaking. The minimum qualification is Higher National Certificate in Electrical Engineering and Membership of the Institution of Electrical Engineers with at least student or graduate status.

Applicants should have had experience in the maintenance and operation of A.C. and D.C. operated plant, control gear, sub-stations and distribution systems, etc.

The commencing salary will be within the range £850 to £1,300 per annum, according to age and experience.

The post is superannuable, and the successful applicant will be required to pass a medical examination and become a member of the Tyne Commission Superannuation Fund.

Applications, stating age, qualifications and experience, and giving the names of referees who can testify to the candidate's character and professional ability, should be sent to the undersigned in envelopes endorsed "Assistant Electrical Engineer," not later than 6th SEPTEMBER, 1960.

R. N. EGGLETON,

Secretary.

Bewick Street,
Newcastle upon Tyne, 1.

10th August, 1960.

APPOINTMENTS VACANT

CLARE RURAL DISTRICT COUNCIL.
SEWERAGE AND WATER SUPPLY.

The Council REQUIRE the services of a RESIDENT ENGINEER to act under the directions of their Consulting Engineers for supervising the construction of a scheme of main sewerage and sewage disposal, and later a scheme of main water supply, estimated to cost about £150,000.

The duration of the work will be about two years, and there are other schemes to follow. Candidates, who must have acted in a similar position on similar schemes of sewerage, sewage disposal and water supply, should apply in writing to the Consulting Engineers, MESSRS. D. BALFOUR AND SONS, MM.1.C.5, Victoria Street, Westminster, S.W.1, giving full particulars of their age, training, qualifications and experience, and names and addresses of other Consulting Engineers under whom they have acted as Resident Engineers.

The salary offered is up to £1,250, inclusive, according to age and experience, and candidates must provide themselves with a motor car, for which they will be reimbursed on the Council's Essential User Scale.

JOHN ALLPRESS,
Clerk of the Council.

Stonehall,
Clare, Suffolk

12th August, 1960.

FOREHOE AND HENSTEAD RURAL DISTRICT COUNCIL.

APPOINTMENT OF RESIDENT ENGINEER.

APPLICATIONS are invited for the ABOVE APPOINTMENT, to supervise on behalf of the Council under the direction of their Consulting Engineers, MESSRS. ELLIOTT AND BROWN, the sewerage scheme for the parishes of Hetherett and Cringleford, estimated to cost £150,000. The scheme is for the laying of sewers and construction of pumping stations only. It is expected that the work will be completed in two years from the date of commencement.

Salary will be £1,000 per annum, and the appointment is subject to one month's notice on either side. Travelling expenses on the national scale will be paid for a car not exceeding 10-h.p. or 1,199 c.c.

It is essential that applicants should have had considerable experience in this type of work. Applications, stating age, qualifications and details of previous experience in similar work, together with the names of two referees, should be sent to the undersigned not later than the 27th AUGUST, 1960.

R. F. BLAZEY,
Clerk of the Council.

158 Ber Street,
Norwich.

Nor. 56B.

BASILDON DEVELOPMENT CORPORATION.

CHIEF ENGINEER'S DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS:

(a) Assistant Engineer, Grade A.P.T. IV (Salary Scale £1,065-£1,220).

(b) Engineering Assistant, Grade A.P.T. II (Salary Scale £765-£880).

Applicants for appointment (a) should be chartered civil or municipal engineers with a fair background of engineering experience. Applicants for appointment (b) should have had sound training and experience in general civil engineering and surveying.

Both posts are supernumerary and subject to one month's notice on either side. The successful candidates will be eligible for the tenancy of Corporation houses.

The Corporation's programme for the next five years includes many interesting projects, such as main roads, bridges, subways, sewage treatment works, etc. Both posts offer excellent design experience in this connection.

Applications, giving age, education, qualifications, experience, previous and present appointments, together with the names and addresses of two (technical) referees, should reach the GENERAL MANAGER, Gifford House, Basildon, Essex, not later than First Post on MONDAY, 29th August, 1960.

A FIRST-CLASS ESTIMATOR for roads and laying fields contractors. Must be keen and energetic. Good wages will be paid to the man who is prepared to work hard.—CAMMIDGE ROAD CONSTRUCTIONS, LTD., 14-26 Henrietta Street, Coventry. Tel.: Coventry 88473.

REQUIRED immediately.—A first-class Blaw Knox PF90 OPERATOR. For wages, subsistence and travelling allowance to the right man.—CAMMIDGE ROAD CONSTRUCTIONS, LTD., 14-26 Henrietta Street, Coventry. Tel.: Coventry 88473.

WORK STUDY ENGINEER REQUIRED by progressive South London company of building and civil engineering contractors. Must have some experience in method study and work measurement, to join a well-established team using and supplementing synthetic standards for materials handling, plant, design and pretender research. H.N.C. or L.I.O.B. standard, age 24-30. Pension scheme; free life insurance, and assistance with housing if necessary. Please write, stating experience, and salary required, to Box V.2500, "The Contract Journal."

SITE AGENTS AND GENERAL FOREMEN

SIR LINDSAY PARKINSON AND CO., LTD., invite applications for the above positions.—Applicants, who must be fully experienced in carrying out major building contracts of all types, should forward all details to:

Building Director,
SIR LINDSAY PARKINSON AND CO., LTD.,
8 Lambeth Road, London, S.E.1.

SENIOR QUANTITY SURVEYOR REQUIRED for employment with Cumberland builders. Experience of final accounts and estimating. House available. Write, giving full details of experience and qualifications, and state salary required, to Box V.1715, "The Contract Journal."

SURVEYORS.—An opportunity exists with national contractor offering promotion and advancements to suitable applicants for the following positions: SENIOR SURVEYOR; MEASURING SURVEYORS. REQUIRED initially for large building contract in London. Experienced in measurements for all trades for final account and measuring and settling sub-contractors' accounts. Able to work with minimum supervision.—Apply in writing to Box V.2448, "The Contract Journal."

EXPERIENCED FITTER WANTED for reconditioning diesel engines, excavators and allied plant; experienced Lima 1201 excavators and Cummins engines. Substantial bonus scheme. Overtime. Superannuation. Assistance with accommodation.—JOHN HEAVER, LTD., Whyke Gravel Pit, Chichester.

APPOINTMENTS VACANT

BUILDING AGENTS AND GENERAL FOREMEN.—If you are qualified by training and you have had experience of recent years in controlling major building contracts from start to finish, with a minimum supervision from head office, and wish to join the permanent contract staff of an old-established company who are expanding their organisation in the Midlands area, we can offer you a position with a good salary, and there is a pension and bonus scheme. Only top-grade men need apply.—Applications invited, in strict confidence, to Personnel Manager, WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

E. S. GATES, LTD.

Vacancies for AGENTS and GENERAL FOREMEN. Top-grade AGENTS and GENERAL FOREMEN REQUIRED for several interesting contracts varying from £50,000-£250,000 in Bucks., Berks. and Herts. Only men with first-class experience and references need apply to:

E. S. GATES, LTD.,
Chalfont Station Road, Amersham, Bucks.

QUANTITY SURVEYOR, well experienced, REQUIRED for site measurements, preparing interim valuations and final accounts on all classes of building and civil engineering work. Pension scheme in operation.—Write, in confidence, stating age, experience, and salary required, to General Manager, Constructional Department, CAWOOD WHARTON AND CO., LTD., Southlands, Harrogate, Yorkshire.

WAGES CLERK, conversant with building and civil engineering industries, REQUIRED for head office of large organisation in London, N.W.6, salary according to age and experience. Excellent pension and life assurance schemes.—Write full details of age, experience, and salary required to Box V.2419, "The Contract Journal."

ENGINEERS.—Engineers REQUIRED for large contract shortly to commence in West London. Applicants must be used to accepting responsibility and working with maximum accuracy. Excellent opportunity for promotion and advancement for the suitable applicants.—Apply in writing to Box V.2449, "The Contract Journal."

DEPUTY FOREMAN FITTER for maintenance and construction department of large sand and gravel undertaking having five depots. Wide experience necessary. Substantial bonus scheme. Overtime Superannuation. Assistance with accommodation. JOHN HEAVER, LTD., Whyke Gravel Pit, Chichester.

FITTER REQUIRED to take charge of overhaul and maintenance of all types of sportsground construction equipment, including diesel, and development of plant section. Must be experienced man capable of grinding, welding, etc., and able to work on own initiative. Transport provided and good rates of pay to right area.—Write to Box V.2486, "The Contract Journal."

CONTRACTS SUPERVISOR REQUIRED by medium-sized firm of reinforced concrete specialists in the Midlands. Successful applicant will be based at head office and will be responsible for the supervision of a number of contracts in various parts of the country. Car provided. Good salary; pension scheme. Write, giving details of experience, etc., to Box V.2498, "The Contract Journal."

CIVIL ENGINEER-AGENT

Top salary and opportunity to join old-established public works company with excellent prospects for the future. Senior man required immediately for interesting two-year contract in London area. Previous experience essential in control of dual carriageway, in-situ piling and large R.C. bridge construction. Apply, in strictest confidence, giving details of qualifications and experience and when available to:

SIR JOHN JACKSON, LTD.,
53 Victoria Street, S.W.1.

SENIOR ENGINEER/SUB-AGENT REQUIRED for power station contract by major firm of civil engineering and building contractors. This is a permanent appointment with prospects of rapid promotion. Agent and has a good scope for further advancement thereafter for the right applicant. Write Box V.2434, "The Contract Journal."

CIVIL ENGINEERING contractors expanding their organisation, WISH to appoint a SENIOR SITE ENGINEER for roadworks and main drainage contracts in the Oxfordshire area. Salary range of £1,000-£1,250 p.a. Permanent and progressive post, with superannuation scheme.—Write in confidence, stating age, experience and salary required, to Box V.2433, "The Contract Journal."

D.C.M. CONTRACTORS (LIVERPOOL), LTD. QUANTITY SURVEYOR AND CIVIL ENGINEERS REQUIRED for bridge and road works contracts in Lancashire and North Cheshire. Permanent positions with entry into non-contributory pension scheme after trial period.—Write, stating age, previous experience, and salary required, to Managing Director, D.C.M. Contractors (Liverpool), Ltd., Bluebell Lane, Huyton-with-Roby, Lincs.

CIVIL ENGINEERING contractors REQUIRE AGENT for road contract in West of Scotland. Must be experienced man and salary will be commensurate with ability.—Write, giving particulars of experience, etc., to 2875 Wm. Porteous and Co., Glasgow.

CASHIERS, WAGES CLERKS, TIMEKEEPERS. Building and civil engineering contractor has several vacancies in the above positions for young men with some years' experience on large building contracts with a national contracting firm, or work on contracts in the Midlands area. The positions are permanent, with a good salary.—Apply to WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

CIVIL ENGINEERS, preferably qualified, REQUIRED by civil engineering contractors engaged in the construction of impounding reservoirs, sea defence works, large-diameter pipelines, trunk sewers, tunnels and other works in heavy construction, for site work on contracts mainly in the Midlands and North of England. Applicants should have had some previous site experience and be capable of taking the responsibility of supervising contracts immediately or within a short time. Appointment. It is envisaged that persons between 25 and 35 years of age would be suitable and who would be of necessity mobile. Permanent and progressive appointments are available, with attractive salaries and allowances. Apply, giving details of age, experience, etc., to LEHANE, MACKENZIE AND SHAND, LTD., Matlock, Derbyshire.

APPOINTMENTS VACANT

FITZPATRICK AND SON (CONTRACTORS), LTD., have the following staff vacancies: (a) SITE CLERK for London area, experienced wages, checking and costs; (b) H.O. SENIOR INVOICE CHECKER with bought ledger department, able correspond with suppliers; (c) SITE COST CLERK for London area; (d) H.O. COST CLERK, contract and departmental costs. Posts permanent and pensionable.—Apply Secretary, 455 Old Ford Road, London, E.3.

QUANTITY SURVEYOR REQUIRED by contractors engaged in surfacing and private street works contracts in London and South of England.—Write Box V.2462, "The Contract Journal."

EXPERIENCED ENGINEER, for setting-out and measuring.—Apply, stating experience, and salary required, to RILEY AND WHISLAW, LTD., Haslemere, Surrey.

MEARS BROS. (CONTRACTORS), LTD.—SUB-AGENTS, SECTION ENGINEERS and SITE ENGINEERS REQUIRED for civil engineering contracts in the South of England. Good prospects for keen men with previous construction experience. Superannuation scheme in operation.—Apply in writing, giving particulars of training, experience, previous employers, age, and salary required, to Personnel Manager, 154 Sydenham Road, S.E.26.

CONCRETE ENGINEER or CHEMIST REQUIRED to take technical control of quality of large quantities of ready-mixed concrete in Sheffield area. Applicant must have had experience in concrete laboratory testing procedures and troubleshooting in the field. To a man with drive and initiative this permanent position offers unique opportunities—world-wide company in an expanding industry.—Reply in confidence to Technical Director, READY MIXED CONCRETE, LTD., 2/3 The Sanctuary, London, S.W.1.

CIVIL ENGINEERS

Opportunity to join old-established public works company with excellent prospects for the future. CIVIL ENGINEERS REQUIRED immediately for interesting two-year contract in London area, with experience in setting-out, construction of new dual carriageways, in-situ piling and large R.C. bridges. Apply, in confidence, giving details of qualifications and experience and when available, to:

SIR JOHN JACKSON, LTD.,
53 Victoria Street, S.W.1.

ENGINEER to take charge of site investigations and soil mechanics laboratory, REQUIRED by consulting engineers in Westminster. Excellent opportunity for well-qualified, energetic man to secure pensionable post.—Write Box V.2470, "The Contract Journal."

AGENT REQUIRED by north-western firm of civil engineering contractors, to supervise water main contracts. Must have previous experience of this type of contract and be prepared to live in any part of the country. This is a permanent position, with good salary and transport provided.—Write Box V.2487, "The Contract Journal."

NATIONAL building and civil engineering contractors invite applications for the following positions: CONTRACTS SUPERVISORS, preferably with a recognised qualification in building or structural engineering and with good experience in control of a number of major works involving extensive reinforced concrete construction. GENERAL FOREMEN, with experience of major building and civil engineering works. SECTION FOREMEN, preferably carpenter-trained and with experience in charge of smaller works or sections of larger contracts. The positions are permanent and pensionable, and offer good opportunities for advancement within an expanding organisation. Salaries will be commensurate with the responsibilities involved.—Please send full details, in confidence, to Box No. N.B.3627, A.K. Advertising, Ltd., 212a Shaftesbury Avenue, London, W.C.2.

PLANT HIRE CLERK.—Applications invited for appointment in the plant hire department of our head office at Mitcham Road, Croydon, Surrey. The position offered is one with every opportunity of advancement with our rapidly expanding plant hire company. Preference given to ambitious young men with previous experience in a similar capacity.—All applications should be addressed to the Managing Director, GENERAL ROADWORK, LTD., 616 Mitcham Road, Croydon, Surrey.

STRUCTURAL ENGINEERS.—Vacancies exist for STRUCTURAL DESIGNERS and DESIGNER/DETAILERS. Positions are available which offer excellent prospects and opportunity for permanent. Pension scheme.—Apply in confidence, giving age, details of education, training, qualifications and experience, with an indication of salary required, to Personnel Officer, ROBERT M. DOUGLAS (CONTRACTORS), LTD., 395 George Road, Erdington, Birmingham, 23.

J.C.B. OPERATOR REQUIRED. Must be experienced and prepared to travel. Subsistence or travelling time and fares. Permanent position.—Apply, STAVERTON CONTRACTORS, LTD., Racecourse, Totnes (T292).

J. I. CASE COMPANY, LTD.

Will appoint additional AREA REPRESENTATIVES in the North-East, Midlands, South-East.—If you are an absolutely first-class Earthmoving Representative and you wish to join a progressive and rapidly expanding company, we invite you to apply, in the first instance, in complete confidence, to:

Sales Manager,
J. I. CASE COMPANY, LTD.,
Mill Road, West Drayton, Middlesex.

APPLICATIONS are invited for appointments to the permanent staff of a major building and civil engineering contractors from SENIOR PLANNING ENGINEERS, with extensive knowledge of reinforced concrete work and experience of pre-estimate planning and detailed programming of large building and structural engineering works. CIVIL ENGINEERS, preferably qualified and with good experience of planning, temporary works design and/or experience of heavy civil engineering construction. The appointments offer excellent prospects, with good salary and conditions.—Please send full details to Box No. A.A.3631, K. Advertising, Ltd., 212a Shaftesbury Avenue, London, W.C.2.

CIVIL ENGINEER REQUIRED by PAULING AND CO., LTD., initially at Derby but with the opportunity of a progressive career for an applicant who is prepared to serve elsewhere after six months. Graduate preferred, aged 25 to 40, able to set-out and measure work, and with an interest in reinforced concrete.—Write full details to PAULING AND CO., LTD., 109 Station Road, Sidcup, Kent.

APPOINTMENTS VACANT

CIVIL ENGINEERING ESTIMATORS.—A leading building and civil engineering contractor wishes to appoint an additional estimator to the civil engineering department. Applications are invited from men, aged about 35, who have had good experience of estimating for all types of civil engineering construction. The appointment offers excellent scope for progress in an expanding section of a large organisation and has good salary and conditions. Please send full details to Box No. CE.3619, A.K. Advertising, 212a Shaftesbury Avenue, London, W.C.2.

AGENT.—A vacancy has arisen for a well-qualified civil engineering AGENT to take charge of a section of work to the value of £1m., forming part of a large heavy civil engineering contract in London. Applications are invited, preferably from qualified men who have had good experience of general heavy civil engineering construction. Please send full details to Box No. A.A.3623, A.K. Advertising, 212a Shaftesbury Avenue, London, W.C.2.

SURFACE MAINTENANCE SERVICES, LTD.

REQUIRE the following contracts staff for their civil engineering contract:

SENIOR AGENT

To take charge of a trunk road contract in the south of England, which includes earthworks, drainage, reinforced concrete and road construction.

AREA AGENT

To take charge of a number of medium-sized road and sewer contracts in the Home Counties, having a turnover of £20,000 per month.

SITE ENGINEERS

For setting out, measuring and general site works on civil engineering contracts in the Home and Southern Counties.

ASSISTANT QUANTITY SURVEYORS

For site work, measuring for interim and final accounts for contracts in the Home and Southern Counties. All the above appointments are permanent, with excellent prospects for advancement. Applications, stating age, experience, qualifications, present salary and enclosing copies of references, to:

Personnel Manager,

SURFACE MAINTENANCE SERVICES, LTD.,
124 Old Christchurch Road, Bournemouth.

GENERAL FOREMAN (Overseas).—General Foreman WANTED for overseas contracts. Applicants should have proven ability for supervising and organising sizeable jobs and have experience of bulk excavation pile-driving and road construction.—Write Box V.2473, "The Contract Journal."

MANAGER REQUIRED by northern manufacturers of protective clothing establishing a depot and office in London, with a large existing clientele. This position is an important one and offers great scope, with eventual directorship, to a man thoroughly experienced in all phases of the business and capable of working on own initiative and running a business. A commensurate salary in accordance with qualifications will be paid to the selected candidate. Applications in writing to Box V.2540, "The Contract Journal."

EXPERIENCED ESTIMATOR REQUIRED for civil engineering and building contractors, preferably with previous site experience. Permanent and pensionable appointment after probationary period.—Apply **THOMAS VALE AND SONS, LTD.,** Stourport-on-Severn. Telephone 2462.

BUILDING MANAGER REQUIRED in South Wales, preferably carpenter by trade, with the necessary intelligence, education, initiative and drive to start a branch office in the Aberavenny/Brecon area, with a view to taking over the business in Wales and adjoining counties. Starting salary £1,000 p.a. plus bonus.—Apply in writing, giving full particulars, to **Contract Director, WOOLWAY BUNGALOWS (TAUNTON), LTD.,** 26 Upper High Street, Taunton-Somerset.

SURFACE MAINTENANCE SERVICES, LTD.

REQUIRE the following senior staff to work from their new offices and depot at Corfe Mullen, near Bournemouth:—

CHIEF BUYER

To take charge of the buying department dealing with all the group's civil engineering contracts.

PLANT HIRE MANAGER

To control the group's plant hire company, to arrange the internal hiring of plant and equipment for all contracts, to run the plant fleet engaged on outside hire, and to negotiate all plant purchases and hiring agreements.

SENIOR COST CLERK

To take charge of contract costing for all the group's civil engineering contracts and to supervise the workshop costing section. Applicants must have had at least five years' previous experience in a senior capacity and be in a position to produce first-class references as to their ability. The appointments are permanent, with excellent prospects for advancement.—Applications, stating age, experience, present salary and enclosing copies of references, in confidence, to:

Personnel Manager,

SURFACE MAINTENANCE SERVICES, LTD.,
124 Old Christchurch Road, Bournemouth.

MICHIGAN (GREAT BRITAIN), LTD., REQUIRE a SALES OFFICE ASSISTANT. Candidates should be between 25 and 30 and have had previous experience in sales of plant and equipment. Duties will include office administration, sales letter correspondence and sales analysis. The successful applicant will be required to live in or near Camberley and apply to the Personnel Officer, Michigan (Great Britain), Ltd., P.O. Box 3, Yorktown Works, Camberley, Surrey.

AGENT REQUIRED, with experience of road and sewer contracts up to £50,000. Ambitious man, able to get results. Must hold current driving licence. **BALLASTS, LTD.,** Bentley Lane, Walsall, Staffs.

GENERAL FOREMAN/AGENTS REQUIRED for medium-sized building contracts in Lincoln and Manchester. Must be able to control labour and sub-contractors, and carry out routine site clerical work. Excellent prospects of permanency for right men. Write Box V.2512, "The Contract Journal."

PLANT SALESMAN.—Vacancy with leading plant hire and sales company for Salesman to cover Hampshire, Dorset and West Sussex. This company holds many leading selling agencies. Basic salary £750 per annum plus good rate of commission and expenses. Company car provided.—Write Box V.2541, "The Contract Journal."

APPOINTMENTS VACANT

PAULING AND CO., LTD., REQUIRE for their office at Sidcup a CIVIL ENGINEER with some site experience to be trained as an Estimator. He would be required to work on contract sites occasionally to keep in touch with current practice. This is an excellent opportunity for a young man with a good academic background who looks forward to a career in contract management.—Write full details to Pauling and Co., Ltd., 109 Station Road, Sidcup, Kent.

AN EXPANDING national firm of building and civil engineering contractors wish to appoint a qualified CIVIL ENGINEER, age 30-40 years, having also building experience, to take charge of planning, cost control, organisation and methods, and supervision of a variety of medium-sized building and civil engineering contracts throughout the country. Applicants should have good experience with the larger type of firm, and the position offers considerable scope, the appointment being directly responsible to the executive directors. The successful applicant will operate from the head office in London. The post is pensionable.—Apply, with full details of past experience, salary, etc., to **JAMES CROSBY AND SONS, LTD.,** 59 Queen's Gardens, London, W.2.

QUANTITY SURVEYOR/ESTIMATOR REQUIRED by civil engineering contractors. The position offers scope for a person with initiative and preparedness to accept responsibility for pricing on a truly competitive basis. There is a contributory pension scheme in force. The location is Sheffield. Write in confidence to Box V.2542, "The Contract Journal."

CONCRETING GANGER REQUIRED for Southern Ireland. Capable of supervising modern mechanical batching and spreading equipment. Only men capable of taking complete control and maintaining maximum production considered. Work covers 12-month period. Good prospects.—Write with copy reference to Box V.2545, "The Contract Journal."

PAVOR CONSTRUCTION CO., LTD.

Invite applications for the following experienced civil engineering staff for work in the Yorkshire area:—

Preferably qualified and with extensive experience in the industry.

SITE ENGINEERS Preferably with at least five years' site experience on major projects.

GENERAL FOREMEN A number of General Foremen are required for contracts varying from major road works, deep sewers and bridge works.

These are intended to be permanent positions, and carry with them an immediate entry into first class superannuation scheme. Excellent prospects, together with generous salaries and other financial benefits. Apply in first instance, in writing, to:

Managing Director,
PAVOR CONSTRUCTION CO., LTD.,
Salfaire Road, Shipley, Yorkshire.

SENIOR AND JUNIOR SITE ENGINEERS.—Vacancies exist within a well-known and rapidly expanding firm of civil engineering contractors for Senior and Junior Engineers for site duties on contracts in East Anglia and the West Country. Applicants should have a good general civil engineering background and primarily be experienced in construction of deep sewers in open-cut, heading and tunnel. Permanent, progressive positions for men ambitious to make a career within the industry. Pension and life assurance scheme in operation.—Written applications, in strict confidence, stating age, experience and salary required, to Box V.2497, "The Contract Journal."

QUALITY CONTROLLER REQUIRED for concrete and allied materials. Successful applicant will spend a few weeks in H.O. laboratory before taking charge of site laboratory. A permanent, pensionable position is envisaged.—Full particulars to Personnel Officer, **TARMAC CIVIL ENGINEERING, LTD.,** Ettingshall, Wolverhampton.

M. J. GLEESON (CONTRACTORS), LTD.—Applications are invited for the following positions. Good conditions and prospects apply, and these will be staff appointments:—

CIVIL ENGINEERING ASSISTANT required for head office planning department. Minimum two years' site experience and ability to draw and design. Forward work required.

QUANTITY SURVEYORS, fully experienced, for contracts in North-West and South-West areas.

SITE ENGINEERS, for setting-out duties on large contracts in Midlands and South-Western areas.—Apply, with full details of age, qualifications and experience, to M. J. Gleeson (Contractors), Ltd., C.E. Dept., Harewood House, London Road, North Cheam, Surrey.

AGENTS

Several vacancies now occur, due to rapid expansion, for experienced young Agents able to control the construction of precast and in-situ reinforced concrete structures up to £100,000. Top salaries will be paid to good men, and there are excellent prospects for promotion to Contract Supervisor.—Details of age and experience should be sent to:

Contracts Manager,
THE LONDON FERRO-CONCRETE CO., LTD.,
Maxted Close, Hemel Hempstead, Herts.

ASSISTANT REQUIRED in builders' buying department. Experience essential in inviting tenders from sub-contractors for B.Q.s. Age 30-50.—Apply in writing, with full details of previous experience, and salary required, to **RUSH AND TOMPKINS, LTD. (R.V.R.),** 109 Station Road, Sidcup.

STEIN ATKINSON VICKERS HYDRAULICS, LTD., wish to appoint a **TECHNICAL ASSISTANT** in their expanding mobile sales division at their head office in Knightsbridge. The duties will include the preparation of schematic hydraulic circuit diagrams and proposals, and the carrying out of a sales office routine. A knowledge of hydraulics as applied to earthmoving or mechanical handling machinery is desirable, and a period of training at the company's main works in Surrey will be arranged. Write, stating age and details of past experience, to the Sales Manager, Stein Atkinson Vickers Hydraulics, Ltd., 197 Knightsbridge, London, S.W.7.

ROAD FOREMAN, able to set-out, for small and large road improvement contracts in City of London.—**WILLMENT BROS., LTD.,** 462 London Road, Isleworth, Middx. ISL 4311.

OLD-ESTABLISHED Engineers manufacturing road construction machinery wish to appoint **SALES REPRESENTATIVE** with knowledge of such equipment. Good prospects for right man, and pension scheme.—Write full details, please, to Sales Director, Box V.2511, "The Contract Journal."

APPOINTMENTS VACANT

ENGINEER/AGENTS REQUIRED immediately for roads and main drainage contracts in the Home Counties. Excellent salary and prospects of advancement to suitable applicants.—Apply in writing, with full details of experience, availability, and salary required, to **MANNION BROTHERS (HARROW), LTD.,** 298/300 Preston Road, Harrow.

BONUS ENGINEER

Applications are invited for the above position from Work Study Engineers, Surveyors or other applicants with experience of operating bonus schemes in the building and civil engineering industry. The successful candidate will be responsible for developing a new bonus scheme for various sites throughout the country. Applications should be addressed to:

Contracts Manager,
THE LONDON FERRO-CONCRETE CO., LTD.,
Maxted Close, Hemel Hempstead, Herts.

ENGINEER REQUIRED for setting-out, taking site measurements, and submitting accounts, on civil engineering contracts.—Apply, giving full particulars of experience, and salary required, to **BORDER ENGINEERING CONTRACTORS, LTD.,** 125 Queen Street, Whitehaven, Cumberland.

FOREMEN, GANGERS, TRADESMEN and LABOURERS REQUIRED on several road and sewer contracts in Rugby and Daventry areas.—Apply **GALLIFORD AND SONS, LTD.,** Civil Engineering Contractors, Site Office, Longford Road, Rugby; or Head Office, Wolvey, near Hinckley, Leicestershire. Tel. Wolvey 323.

DEREK CROUCH (CONTRACTORS), LTD., Station Road, Birtley, Co. Durham, REQUIRE the following staff for their building and civil engineering departments: (a) **MEASURING SURVEYOR**, with wide experience of site measuring, interim and final accounts, etc.; (b) **BONUS COST SURVEYOR**, capable of taking full control of all bonusing and costing; (c) **BUYING PLANNING ASSISTANT**, preferably surveyor-trained, with experience of taking-off, scheduling and buying materials, and some planning and programming experience. All posts are permanent and with excellent prospects.—Reply in confidence, stating experience, age, salary required, and post applied for, to Area Manager, Derek Crouch (Contractors), Ltd., Station Road, Birtley, Co. Durham.

CIVIL ENGINEER REQUIRED for civil engineering contracts in reinforced concrete bridge works and sewage disposal works. Successful applicant would be required to work under the control of a civil engineering agent, and previous experience in this type of work is essential. Excellent prospects are offered in a well-established and expanding organisation. We have a progressive staff policy operating superannuation, profit-sharing schemes, and assistance in car purchase.—For further details and application form apply in confidence, giving brief particulars, to A. C. Bryant, Managing Director, **BRYANT AND SON, LTD.,** Small Heath, Birmingham, 10.

THE CLEVELAND BRIDGE AND ENGINEERING CO., LTD. invite applications for the position of **SITE ROAD ENGINEER** at their Port Talbot Contract, South Wales.—Please apply giving age, qualifications and practical experience to The Cleveland Bridge and Engineering Co., Ltd., 123 Pall Mall, S.W.1. Phone: Whitehall 3396.

CONTRACT SUPERVISOR

REQUIRED by piling specialists. Should be prepared to travel in British Isles. Car provided. Superannuation scheme. Good prospects for right man. Apply:

JOHN GILL CONTRACTORS, LTD.,
123 Pall Mall, London, S.W.1.

CIVIL ENGINEERING AGENT REQUIRED for control of civil engineering contracts. Experience in bridge works and reinforced concrete work is generally essential. Excellent prospects are offered in a well-established and expanding organisation. We have a progressive staff policy operating superannuation, profit-sharing schemes, and assistance in car purchase.—For further details and application form apply in confidence, giving brief particulars, to A. C. Bryant, Managing Director, **BRYANT AND SON, LTD.,** Small Heath, Birmingham, 10.

AGENT and GENERAL FOREMAN REQUIRED for reinforced concrete work in the Leamington area. Good position for men who require advancement. Holding of a current driving licence would help. **BALLASTS, LTD.,** Bentley Lane, Walsall, Staffs.

SITE ENGINEERS REQUIRED. Capable of supervising contracts, setting-out, and preparation of valuations. Current driving licence.—**BALLASTS, LTD.,** Bentley Lane, Walsall, Staffs.

MANAGER REQUIRED for Midlands Joinery works attached to English and foreign sawmills. Work is varied and specialised, consisting of special house joinery, high-class oak, teak, etc., special machine cases of large dimensions, fencing, gates, interwoven panels, portable buildings, etc. Must be able to cost and take complete control of department. Must be man of ambition and prepared to go ahead and extend.—Apply with full particulars, copy references, etc., to **WM. IVENS AND SONS (TIMBER MERCHANTS), LTD.,** 128 Railway Terrace, Rugby.

EXPERIENCED MANAGER to run complete softwood department. Must be of good disposition, hard-working and ambitious. Write, with copy references, salary required, etc., to Box V.2505, "The Contract Journal."

JUNIOR CIVIL ENGINEER for site work in the Merseyside area. Enthusiasm, drive and initiative more important than qualifications.—Write in first instance, with full details, in strict confidence, to **D. S. O'BRIEN and Co.,** Olive Mount, Birkenhead.

SITE CASHIER, experienced, REQUIRED by **KINNEAR, MOODIE AND CO., LTD.,** 209-303 Hither Green Lane, London, S.E.13, for large civil engineering contract in South-East London. Good salary, bonus, pension scheme.

CIVIL ENGINEER—RICHARD COSTAIN, LTD., have a vacancy for an Engineer to take control of a section of a large contract. Candidates should have a minimum of four years' site experience with contractors and must be capable of taking responsibility for planning speed of construction and measurement.—Applications should be addressed to Senior Personnel Officer, 111 Westminster Bridge Road, London, S.E.1.

TOP-GRADE DRIVER WANTED for new 22RB Excavator/Crane. Must be prepared to travel. **DUDLEY VALE, LTD.,** 3 Buckingham Place, London, S.W.1. VICTORIA 0252.

APPOINTMENTS VACANT

SECTION FOREMEN REQUIRED immediately for bridge contract in Worcester.—Apply on site, or write to General Foreman, LOMOUNT CONSTRUCTION LTD., Site Office, adjoining The Rectory, Primland, near Hadzor, Droitwich. Tel.: Droitwich 2004.

RESIDENT ENGINEER, Stourbridge, Worcestershire. Applications are invited by MESSRS. JOHN H. HAISTE AND PARTNERS, Consulting Engineers, 10c Hagley Road, Stourbridge, for the post of Resident Engineer, to supervise the construction of sewerage and sewage disposal schemes. Applicants must have had considerable experience in this type of work and be capable of levelling, setting-out, measuring-up, keeping site records, checking statements and controlling all site operations. Salary from £900 p.a. plus subsistence, subject to qualifications and experience. The successful applicant will be required to provide his own car, for which he will receive a travelling allowance based on N.J.C. Scales.—Applications, stating age, qualifications, experience, date available and the names of three referees, should reach the address shown above not later than Saturday, 27th August, 1960.

FITTERS

REQUIRED immediately for bridge contract in Worcester.—Apply on site, or write to:

General Foreman,
LOMOUNT CONSTRUCTION LTD.,
Site Office, adjoining The Rectory, Primland,
near Hadzor, Droitwich. Telephone: Droitwich 2004.

MALE COST CLERK. Experience of civil engineering work and Working Rule Agreement essential. **REQUIRED** by SIR JOHN JACKSON, LTD., for a permanent post at their head office. This is an interesting job in a rapidly expanding department. Reply in own writing to the Secretary, 53 Victoria Street, London, S.W.1.

ASSISTANT CIVIL ENGINEERS. — RICHARD A. COSTAIN have two vacancies for Junior Assistant Civil Engineers. Successful candidates will be based initially at head office and must be mobile, as they may be required to work on site for short periods during the first six months of their appointments. Transfer to site or to the design office will then be effected on a more permanent basis. Applications are invited from men, preferably aged 22-26, with at least two years' site and/or design experience. Ability to use instruments essential.—Please write to Personnel Officer, 111 Westminster Bridge Road, London, S.E.1.

SENIOR CIVIL ENGINEERING AGENT to be appointed by TURKIFF CONSTRUCTION CORPORATION in connection with a rapidly expanding programme of important local and national contracts. Age 32-45 years; fully mobile. Must have proven record on heavy civils and capable of taking full responsibility for large contracts. Attractive salary; subsistence; bonus and pension schemes. Motor car supplied. Appointments with similar conditions are also offered to a Top-grade CIVIL ENGINEERING FOREMAN and experienced COST AND BONUS SURVEYOR. In each instance there is an excellent opportunity for the right man to establish himself in a position with permanency and prospects.—Write full personal and experience details to Group Personnel Manager, Budbrooke Road, Warwick.

AGENTS, GENERAL FOREMAN, FOREMAN CARPENTERS, GANGERS.—If you are top of your grade in the above positions and have previously and recently carried out large building contracts, we have a vacancy for you on one of several large, interesting contracts about to start in the Midlands area.—We invite your application and you should give full particulars and what terms you want to WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

BUILDING ESTIMATOR. — A permanent position with an old-established building and civil engineering contractor with an expanding business in the Midlands area, covering all types of construction, invites applications from senior surveyor-trainer-estimators. — Applications should state training, experience, age, and terms required, to WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

BUILDING AGENT/GENERAL FOREMAN.—Applications are invited by a national firm of building and civil engineering contractors for a Top-grade Building Agent or General Foreman to take charge of the first stage of a large building project for shops and offices in the Devon area. The duration of this first stage is 15 months and a bonus will be payable for completion on time. Good salary payable for the best men, and prospects of continuing employment in the area likely. Pension scheme.—Write, with details of past experience, salary, etc., to Box V.2513, "The Contract Journal."

EXPERIENCED EXCAVATOR DRIVERS

REQUIRED for Smith 21, 19RB and 22RB, for bridge contract in Worcester. Bonus paid.—Apply on site, or write:

General Foreman,
LOMOUNT CONSTRUCTION LTD.,
Site Office, adjoining The Rectory, Primland,
near Hadzor, Droitwich. Telephone: Droitwich 2004.

CONTRACTORS' PLANT.—GEORGE COHEN SONS AND CO. LTD. REQUIRE for their Manchester branch an experienced SALES REPRESENTATIVE. Good prospects; superannuation scheme after probationary period.—Apply in writing, stating age, experience, and salary requirements, to Personnel Manager, 600 Wood Lane, London, W.12.

TAYLOR WOODROW CONSTRUCTION, LTD., REQUIRE WAGES CLERKS, TIMEKEEPERS, STOREKEEPERS and CHECKERS for building and civil engineering sites. Knowledge of W.R.A. Must be mobile. Pensionable posts, with scope for advancement.—Write, giving details of age, experience, etc., which will be treated in strictest confidence, to Personnel Manager, 345 Ruislip Road, Southall, Middlesex.

CARPENTERS REQUIRED immediately for bridge contract in Worcester. Productive bonus and subsistence.—Apply on site, or write to General Foreman, LOMOUNT CONSTRUCTION LTD., Site Office, adjoining The Rectory, Primland, near Hadzor, Droitwich. Tel.: Droitwich 2004.

WAGES/COST CLERK, preferably below 30 years of age, **REQUIRED** by civil engineering and building contractors. Negotiated salary, according to age and experience.—Apply in writing to STANLEY RAYMOND AND CO., LTD., Sussex Road, Southall, Middlesex.

APPOINTMENTS VACANT

PLANT HIRE, company on South Coast REQUIRE ASSISTANT TO PLANT MANAGER. Applicants must be experienced in plant hire, workshop organisation, and be hard-working. — Apply in writing, giving details of age, past experience, and salary required, to:

Box V.2506, "The Contract Journal."
W. J. SIMMS SONS AND COOKE, LTD., have a vacancy in their Birmingham office for an ASSISTANT to the Estimator. The position is permanent and offers scope to a young man with a good quantity surveying experience. Superannuation scheme is operative, and successful applicant will be invited to join after satisfactory probationary period.—Apply in writing, stating age, experience, and salary required, to 133 Marshall Lake Road, Shirley, Solihull, Warwickshire. Envelope should be marked "Private and Confidential."

SENIOR ESTIMATOR REQUIRED by firm of civil engineering contractors. Head office appointment. Reading area. Permanent and progressive post, with superannuation scheme in operation.—Write in confidence, stating age, full details of experience, with past employers' references, salary required, to Box V.2510, "The Contract Journal."

For Advertisements received too late for classification see page 769

APPOINTMENTS WANTED

EXPERIENCED AGENT DESIRES CHANGE, road-works, sewerage, etc. Seeks, if possible, opening to estimate for any road contracts.

Write Box W.2478, "The Contract Journal."

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WORK REQUIRED

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SALES BY TENDER

BOROUGH OF PORT TALBOT.

SALE OF LEWIN MECHANICAL SWEEPER.

OFFERS are invited for the SALE of a 1951 Model Lewin MECHANICAL ROAD SWEEPER, complete with a number of Replacement Brushes. The vehicle may be inspected by arrangement with the Borough Engineer, Telephone: Port Talbot 2244. Offers to be submitted in a plain sealed envelope endorsed "Offer for Mechanical Sweeper," to reach the undersigned by FRIDAY, 9th September, 1960.

W. KING DAVIES,
Town Clerk.

Municipal Buildings,
Port Talbot,
9th August, 1960.

SHIPLEY URBAN DISTRICT COUNCIL.

DISPOSAL OF SCRAP METAL.

OFFERS are invited for the FOLLOWING MATERIALS:

- Cast-iron and Steel Columns (approx. 55 tons).
 - Brass and Copper Scrap (approx. 1.2-ton).
 - Mixed Scrap (approx. 5 tons).
- Full details and forms upon which Offers are to be made can be obtained from the Council's Surveyor, to whom Offers must be returned by 10th SEPTEMBER, 1960.

ERNEST PEARS,
Clerk and Solicitor.

Town Hall,
Shipley.

SALES BY TENDER

COUNTY BOROUGH OF BARROW-IN-FURNESS.

SALE OF 2½-TON DIESEL ROLLER.

OFFERS are invited for a 2½-ton Greens DIESEL ROLLER purchased in 1946. The machine has been in regular use till its recent replacement, but will be sold without any guarantee. It may be inspected at the Corporation Storeyard, Ramsden Street, Barrow-in-Furness.

Offers should reach the Borough Engineer and Surveyor, Town Hall, Barrow-in-Furness, by MONDAY, 29th August, 1960.

LAWRENCE ALLEN,
Town Clerk.

BOROUGH OF WEMBLEY.

OFFERS FOR SALVAGE.

OFFERS are invited for the PURCHASE of SALVAGE, including Clinch and Scrapped Dust, from the Refuse Disposal Works, for the six months commencing 1st October, 1960.

No Tender Forms are to be issued, but particulars of the expected output during the period concerned, may be obtained from the Director of Public Cleansing, Alport Lane, Wembley, on application, together with a stamped and addressed envelope.

Offers, in plain sealed envelopes, endorsed "Offers for Salvage (Refuse Disposal)," and bearing no indication of the sender, must be received by the Town Clerk, Town Hall, Wembley, not later than the 3rd SEPTEMBER, 1960.

The Council do not bind themselves to accept the highest or any offer.

N. CUMPTSY,
Town Clerk.

Town Hall,
Wembley, Middx.,
8th August, 1960.

BOROUGH OF BANBURY.

TENDERS are invited for the PURCHASE and REMOVAL of PLANT at the OLD PUMPING STATION, Lower Cherwell Street, Banbury.

The Specification and Form of Tender may be obtained from MR. J. E. NEWTON, A.M.I.C.E., A.M.I.Mun.E., Borough Engineer and Surveyor, Municipal Buildings, Marlborough Road, Banbury.

Tenders, in plain sealed envelopes endorsed "Tender—Purchase of Plant," should reach the undersigned not later than 12 Noon on FRIDAY, 2nd September, 1960.

The Council do not bind themselves to accept the highest or any Tender.

F. G. E. BOYS,
Town Clerk.

Municipal Buildings,
Marlborough Road,
Banbury.

By Order of the Co-liquidators: K. R. Cork, F.C.A., and David Steele, F.C.A. Re Samuel Butler and Co., Ltd.

STRUCTURAL ENGINEERS' STEEL STOCK, MACHINERY, OFFICE EQUIPMENT, etc.,

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On WEDNESDAY, 28th SEPTEMBER, 1960, at 3 p.m.

Particulars and Plan from the Joint Auctioneers:

Sawbridge and Son, F.A.I., 15 College Place, Southampton (Tel. 22379); and Hall, Paine and Foster, 48 West Street, Southampton (Tel. 4224); or

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SALES BY AUCTION

By Order of the Minister of Works.

E — R

MESSRS.

FULLER HORSEY SONS AND CASSELL have been instructed to offer for SALE by AUCTION in lots at the SPADEHAM RESEARCH ESTABLISHMENT, near GILSLAND, CUMBERLAND, on TUESDAY, 30th AUGUST, 1960, at 10.30 a.m. precisely.

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Catalogues, 1/- each, may be obtained, when ready, from Messrs. FULLER HORSEY SONS AND CASSELL, Industrial Auctioneers, 10 Lloyds Avenue, London, E.C.3.

E — R

By Order of the SECRETARY OF STATE FOR WAR.

MESSRS. FULLER HORSEY SONS AND CASSELL

have been instructed to offer for SALE by AUCTION in Lots at the ROYAL ARSENAL, WOOLWICH, LONDON, S.E.18, on TUESDAY, 6th SEPTEMBER, 1960, and following day, at 10.30 a.m. precisely each day:

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Advertisements received too late for Classification

COUNTY BOROUGH OF SOUTHAMPTON.

Southampton C.B.C. invites TENDERS for the FOLLOWING CONTRACTS on Bills of Quantities available in September:

CONTRACT B.353—20 Traditional Houses, Surrey House.

CONTRACT B.342—17 Traditional Houses, Bitterne Road Bath Road.

CONTRACT B.343—Three Blocks of Four-storey Traditional Flats, Type "P" (14 flats per block), Bitterne Road Bath Road.

Applications for Tender documents should be received by the BOROUGH ENGINEER, Civic Centre, Southampton, by 10 a.m. on TUESDAY, 6th September, 1960.

COUNTY BOROUGH OF SOUTHAMPTON.

TENDERS are invited for the FOLLOWING CONTRACT on Bills of Quantities available in September:

Contract B.327—Block of 14 Shops and 26 Dwellings with Garages, and ancillary works, at Thornhill Estate.

Applications for Tender documents should be received by the BOROUGH ENGINEER, Civic Centre, Southampton, by 10 a.m. on FRIDAY, 9th September, 1960.

BOROUGH OF HARROW.

UXBRIDGE ROAD IMPROVEMENT—PART III (KIPLING PLACE TO GREEN LANE).

TENDERS are invited for ROADWORKS involving approx. 4,500 sq. yd. of Carriageway Widening in Lean-mix Concrete, 13,250 sq. yd. of Surfacing in Bitumen Macadam and Fine Cold Asphalt, Kerbing, Paving, Culverting and Drainage Works.

Drawings and Conditions of Contract may be inspected at the office of, and a copy of the Form of Tender, Specification and Bills of Quantities obtained, on application to the Borough Engineer, at the Council Offices, Uxbridge Road, Stanmore, Middlesex, on payment of Two Pounds, by crossed cheque made payable to the Harrow Corporation, returnable where a bona-fide Tender reaches the Council within the prescribed time.

Tenders, on prescribed forms, enclosed in a plain envelope bearing no indication of the sender endorsed "Tender—Uxbridge Road Improvement (Part III)," to be delivered to me not later than 10 a.m. TUESDAY, 20th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

D. H. PRITCHARD, Town Clerk.

Council Offices,
Harrow Weald Lodge,
Harrow, Middx.

BOROUGH OF SURBITON.

VARIOUS RECREATION GROUNDS AND ALLOTMENT SITES.

TENDERS are invited for the ERECTION OF NEW CHAIN LINK FENCING and GENERAL FENCING REPAIRS in accordance with the Plans, Specification, Bills of Quantities and General Conditions of Contract, which may be obtained from the Office of Mr. R. THORNTON, Borough Engineer and Surveyor, Council Offices, Ewell Road, Surbiton.

Tenders, on the form provided, enclosed in the endorsed envelope provided and bearing no name or mark indicating the sender, must be delivered to the undersigned and received by him not later than 5 p.m. FRIDAY, 2nd September, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

JOHN H. A. CRUNDELL, Town Clerk.

COVENTRY CORPORATION.

ROAD RESURFACING PROGRAMME, 1960-61.

The above Corporation invite TENDERS for RESURFACING total of 21,400 sq. yd., and incidental works.

Documents from CITY ENGINEER, Council House, on payment £5, returnable on receipt bona-fide Tender by Noon, 5th SEPTEMBER.

ASSISTANT ENGINEERS REQUIRED by expanding civil engineering contractors in Yorkshire. Previous experience of plant work preferred.—Reply, stating age, experience, qualifications and salary required, to Box V.2535, "The Contract Journal."

FIRST-CLASS PILING FOREMAN REQUIRED for bridge contract in Sussex. Accustomed to handling 10-ton derricks and heavy piling. Good pay and bonus. LOWMOUNT CONSTRUCTION, LTD., 40 Piccadilly, London, W.1.

ASSISTANT REQUIRED for contracts manager, experienced general building and R.C. contracts. S.E. Essex area.—Full particulars, Box V.2539, "The Contract Journal."

MASSEY-FERGUSON Industrial distributors (South-West location) REQUIRE a SALES REPRESENTATIVE with a contracting and building trades background, to expand sales of industrial tractors, diggers, compressors, etc.—Please write fullest details in confidence to Box V.2543, "The Contract Journal."

AN OPPORTUNITY exists in a small expanding precast concrete works for a first-class FOREMAN/WORKS MANAGER, eager to apply new ideas and manufacturing techniques. Have and ability to organise production and supervise labour, coupled with an experience of all types of precast concrete goods, are essential. — Full details to the General Manager, CONCRETE PRODUCTS, LTD., Bladen Street, Sheffield, 2.

ENGINEER REQUIRED—THE BLOKCRETE CO., LTD., Southampton. Experience in all aspects of precast concrete, able to design and supervise the manufacture, also meet architects and surveyors. Age group 30-35 years. An associate member of the Institute of Civil Engineers or Structural Engineers preferred. Excellent prospects to right man.—Write in confidence, with full details and salary required, to The Chairman, THE BLOKCRETE CO., LTD., Mount Pleasant Wharf, Southampton.

YOUNG QUANTITY SURVEYOR REQUIRED by established and growing company of sportsfield and civil engineering contractors for preparation of interim certificates and final bills.—Apply E. DOE AND SONS (CONTRACTS), LTD., Fyfield, Essex. Telephone: Fyfield 238.

FOR SALE, 14010 Rex Cleanline Model Closed Drum CONCRETE MIXER, on four steel wheels, fitted with Petter Diesel Engine and Built-in Weigher. All overhauled and in excellent order. Draggline available. — W. V. DAVIES, Concrete Mixer Service, Shipston-on-Stour. Phone 125.

SURREY COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPT.

TENDERS are invited for ROADWORKS on ALFOID-LOXWOOD ROAD (B.2133), at Alford, comprising Realignment, Widening, Kerbing, Drainage, Footway, and ancillary works (approx. 1,300 lin. yd.).

Particulars and Forms of Tender, returnable by 10th SEPTEMBER, 1960, obtainable from COUNTY ENGINEER, County Hall, Kingston-upon-Thames.

BOROUGH OF SUTTON COLDFIELD.

TAMWORTH ROAD IMPROVEMENT—STAGE 2.

TENDERS are invited for the ABOVE WORKS. This work entails the complete Reconstruction of approx. 300 lin. yd. of Carriageway, Bulk Excavation and Erection of Open Pale Fencing and Four-rail Fencing. Also included is approx. 2,400 sq. yd. of Hot Rolled Asphalt Surfacing.

Application for Contract documents, accompanied by a deposit of Two Pounds (returnable on receipt of a bona-fide Tender not subsequently withdrawn), should be made to the Borough Surveyor, Council House, Sutton Coldfield, where Plans and Sections may be inspected during office hours.

Tenders, endorsed "Tamworth Road Improvement—Stage 2," are to be delivered in plain sealed envelopes not later than Noon, 2nd SEPTEMBER, 1960.

J. P. HOLDEN, Town Clerk.

The Council House,
Sutton Coldfield.

BOROUGH OF SOUTHGATE.

RECONSTRUCTION OF JUNCTION OF WINCHMORE HILL ROAD WITH EVERLEY PARK ROAD, N.21.

TENDERS are invited from specialist firms for the RECONSTRUCTION of the ABOVE JUNCTION. The Contract will provide for Constructing approx. 100 sq. yd. of 9in. Concrete to Form Foundation of New Carriageway, and Provision and Laying of approx. 750 sq. yd. of Bituminous Macadam Surfacing, together with Kerb, Paving and other ancillary works.

Contractors wishing to tender should apply to the Borough Engineer and Surveyor for a copy of the relevant documents.

Sealed Tenders, in the envelope provided, must be received by the undersigned not later than 9 a.m. on MONDAY, 5th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

GORDON H. TAYLOR, Town Clerk.

Town Hall,
Palmer's Green, N.13,
August, 1960.

BOROUGH OF SOUTHGATE.

CONCRETE PANEL FENCING AT BARROWELL GREEN REFUSE DISPOSAL PLANT.

TENDERS are invited from specialist firms for the PROVISION AND ERECTION of approx. 270 lin. yd. of CONCRETE PANEL FENCING to the ABOVE SITE.

Contractors wishing to tender should apply in writing to the Borough Engineer and Surveyor for the relevant documents.

Drawings and General Conditions of Contract may be inspected at the Engineer's Office, Palmer's Green, N.13, during normal office hours.

Sealed Tenders must be returned to the undersigned not later than 12 Noon, MONDAY, 5th September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

GORDON H. TAYLOR, Town Clerk.

Town Hall,
Palmer's Green, N.13,
August, 1960.

RUISLIP-NORTHWOOD URBAN DISTRICT COUNCIL.

HIGHWAY WORKS AT RUISLIP STATION BRIDGE, WEST END ROAD.

TENDERS are invited for BUILDING-UP and WIDENING OF EMBANKMENTS, REGRADING, REALIGNMENT and RESURFACING of approx. 3,500 sq. yd. of CARRIAGEWAY, RELAYING 700 lin. yd. of existing GRANITE KERB, and RECONSTRUCTION of FOOTWAYS, together with SURFACE WATER DRAINAGE, etc.

Documents from Engineer and Surveyor on payment of £2 2s. deposit, which is returnable on receipt of bona-fide Tender.

Tenders to be returned to undersigned not later than MONDAY, 5th September, 1960.

EDWARD S. SAYWELL, Clerk of the Council.

MANCHESTER firm of public works contractors REQUIRE an experienced SITE ENGINEER for roads and sewer contracts in the Manchester area. Good salary and a car provided to suitable man. Reply, stating details of experience, and when available to THE NORTH WESTERN CONTRACTING CO., Park Avenue, Longsight, Manchester, 12.

SENIOR COST CLERK REQUIRED to act as section leader in precast concrete works accounts office co-ordinate present costing routine and produce job costing records. Contributory pension scheme in operation.—Apply Accountant, CAWOOD WHARTON AND CO., LTD., Stockley Road, West Drayton, Middx.

AGENTS REQUIRED for contracts in the Home Counties. Thoroughly experienced in reinforced concrete. Excellent prospects for right man. Superannuation scheme. Salary range £1,300-£1,500. Full particulars to Box V.2536, "The Contract Journal."

AGENT REQUIRED for large sewage disposal contract in Home Counties. Applicants must have had a wide experience in reinforced concrete and deep excavation. Contributory pension scheme after approved service.—Write, giving age, qualifications, experience and salary required, to the General Manager, HENRY OSMAN AND CO., LTD., Winchester Road, Southampton.

SITE ENGINEER (experienced) REQUIRED, capable of setting out for roads, sewers on housing sites, etc. Knowledge of traverse surveys desirable. Permanent and pensionable position to suitable applicant.—Apply in writing, giving full particulars of experience, qualifications, also age and salary required, to Building Manager, M. J. GLEESON (CONTRACTORS), LTD., Hareton House, London Road, North Cheam, Surrey.

COUNTY BOROUGH OF IPSWICH.

TENDER FOR VEHICLES.

TENDERS are invited for the SUPPLY and DELIVERY of the UNDERMENTIONED VEHICLES—

Two 18 cu. yd. Dual Tip Refuse Collection Vehicles.

Two 15cwt. Salvage Trailers, suitable for use with Above Vehicles.

One Combined Gully and Cesspool Emptier (1,200 gallons).

One 5cwt. Pick-up Truck.

One P.C.V. Electric Truck.

Particulars of the requirements can be obtained from the Borough Surveyor, 19 Tower Street, Ipswich.

Tenders, in plain sealed envelopes, bearing no name or mark to indicate the sender, endorsed "Tender for Vehicles," must be delivered to the undersigned not later than First Post, FRIDAY, 26th August, 1960.

The Council does not bind itself to accept the lowest or any Tender.

J. C. NELSON, Town Clerk.

Town Hall,
Ipswich.

BOROUGH OF SHREWSBURY.

ERECTION OF HOUSES AND FLATS AND A SHOP.

TENDERS are invited for a FIXED-PRICE CONTRACT for the ERECTION of 12 FLATS in THREE STOREYS, 12 THREE-STOREY HOUSES and ONE SHOP with MAISONNETTE OVER at NEW STREET, Shrewsbury.

Specifications, Drawings, Bills of Quantities and Forms of Tender may be obtained from, and Conditions of Contract may be seen during office hours at the office of the Borough Surveyor, Guildhall, Shrewsbury, on and after 31st August, on payment of £2 2s., which will be returned on receipt of a bona-fide Tender and the remaining documents.

Tenders, on the prescribed form, sealed in the envelope provided and bearing no mark of identification, are to be received by the undersigned not later than 10 a.m. on WEDNESDAY, 21st September, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

S. R. H. LOXTON, Town Clerk.

Guildhall,
Shrewsbury,
August, 1960.

CARMARTHEN RURAL DISTRICT COUNCIL WATERWORKS.

CONSTRUCTION OF PUMPING STATIONS, SERVICE RESERVOIR AND PIPELaying—CONTRACT A—AT LLANGYNNAIR, CYNWYL ELFED AND RHYDARQUEAU, CARMARTHEN.

The Council invite FIXED-PRICE TENDERS from experienced contractors for the construction of THREE SMALL PUMPING STATIONS, a SMALL CONCRETE SERVICE RESERVOIR of 20,000 gallons capacity, and SUPPLYING AND LAYING about eight miles of 3in. and 4in. SPUN-IRON PIPES and about 1½ miles of 2in. ASBESTOS-CEMENT PIPES, all with Flexible Joints.

The General Conditions of Contract, Specification, Bill of Quantities and Form of Tender for this CONTRACT, prepared by the Engineers, HERBERT LAPWORTH PARTNERS, 25 Victoria Street, Westminster, S.W.1, may be obtained from the undersigned on or after Monday, 29th August, 1960, on receipt of a cheque for £5, made payable to the Carmarthen Rural District Council, which sum will be returned on receipt of a bona-fide Tender.

Tenders, together with all documents received, are to be enclosed in a sealed cover endorsed "Waterworks Construction for Pumping Stations, Service Reservoir and Pipelaying," and addressed to the undersigned and delivered not later than 10 a.m. on MONDAY, 26th September, 1960.

Only Tenders from firms experienced in this type of work will be considered.

The Council do not bind themselves to accept the lowest or any Tender.

T. E. WILLIAMS, Clerk.

3 Spillman Street,
Carmarthen,
12th August, 1960.

RURAL DISTRICT COUNCIL OF SEDBERGH.

TENDERS are invited for ROADWORKS at HAVERA, Sedburgh.

Full Specification from the undersigned, to whom Tenders must be delivered in sealed envelopes marked "Tender," by Noon on the 31st AUGUST, 1960.

D. WARRING, Clerk of the Council.

Council Offices,
Sedburgh,
Yorkshire,
13th August, 1960.

FOREMAN, ROADWORKS.—A new company with contracts in Surrey REQUIRES a FOREMAN. Experience of drainlaying and surfacing essential. Ability to use instruments an advantage. Salary not less than £800. Permanent position and excellent opportunities for a good man.—Write Box V.2520, "The Contract Journal."

MANUFACTURERS OF CABINET FURNITURE are extending their activities into contract field. They have an interesting position for a man of high calibre who is already in contact with executives of building contractors, firms of architects, local authorities, hospital management committees and office furnishing contractors.—Write for interview to Box V.2508, "The Contract Journal."

FOREMAN REQUIRED for sea defence works, Hampshire coast. Good salary. Bonus.—Apply in writing, AUSTEN SHRIVES, LTD., Emsham, Surrey.

CIVIL ENGINEER REQUIRED by International Company. Initially for sewerage scheme contract in County Durham. This is a permanent staff appointment offered to young engineer wishing to gain experience in the sewage disposal field. Apply in writing to THYSSEN, Ref. C.G.P., Wesleigh House, 42 Coombe Road, New Malden, Surrey, or telephone Malden 7741-2.

PLANT MANAGER REQUIRED by the Civil Engineering Department of The Cleveland Bridge and Engineering Co., Ltd., Darlington, Co. Durham. He should be between 30 and 50 years of age, with a wide experience of civil engineering plants, and considerable administrative ability.—Applications giving qualifications and experience, to Chief Civil Engineer.

FOR SALE, 18/12 Rex Closed Drum CONCRETE MIXER, on four steel wheels, fitted with Ruston Diesel Engine, overhauled, cleaned and painted ready for use. Weigher and Draggline available if required. W. V. DAVIES, Concrete Mixer Service, Shipston-on-Stour. Phone 125.

MORE POWER FOR THE POWER HOUSE

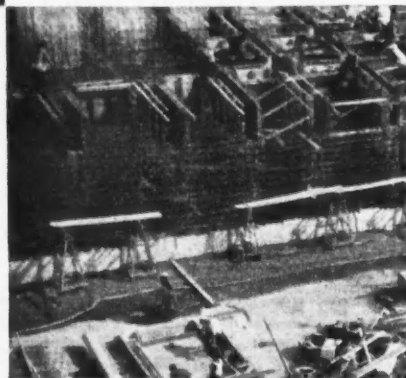
IJORA EXTENSION is Costain built!



Consulting Engineers: COODE AND PARTNERS.

Richard Costain Ltd. have now erected an extension to the power station at Ijora, Nigeria, which was built by them. The extension includes a new turbine house, boiler house, and other works. As in the original project, because of the nature of the site, a feature of the extension has been the construction of three large, independent and buoyant rafts of re-inforced concrete to support the new buildings. The experience, technical ability and resources brought to this contract are available for every Costain client.

Picture below shows an early stage in the construction of one of the concrete rafts on which the new buildings were erected.



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Limited

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THE CONTRACT JOURNAL

INCORPORATING
THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

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LAWRENCE MCCARTHY

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Advertisements

Advertisement rates may be obtained on application to R. Binfield, Advertisement Manager.

THE WAGE DIFFERENTIAL

ONE subject caused much bickering at this year's annual conference of the National Federation of Building Trades Operatives—the difference between skilled and unskilled wage rates. The trouble started when a delegate of the Transport and General Workers Union accused the building craft unions of going back on a promise made in 1955 not to allow the difference between skilled and unskilled rates to be further widened. His union, he said, had loyally supported the Federation, but they were being bludgeoned into a position where they might have to leave it and negotiate instead through the machinery of the civil engineering industry.

The differential between craft and labouring rates may always be counted upon to enliven conference proceedings. What is the background? In times of inflation the differential tends to narrow. Since as far back as 1886 there has been a steady lessening of the differences between the wage rates of skilled and unskilled men. The labourer's rate, about 64 per cent. of the craftsman's in 1886, was fixed at 75 per cent. in 1922, and in 1945 it was raised to 80 per cent. Just before this year's increase of 2½d. for craftsmen and 1½d. for labourers, it was 89 per cent.

Is a narrow differential a good or a bad thing? There are arguments for as there are against. For a narrowing differential it can be argued that in times of rising living costs all workers should be treated alike since the basic necessities are as expensive for one as for the other. This was the principle followed throughout the war and it is recognised today in the building industry's sliding-scale cost-of-living agreement. Another argument which could be used is that it confers, paradoxically, an indirect benefit upon the craftsmen. A high labourer's rate reduces his importance as a potential competitor of the craftsman. This is an aspect not to be ignored when the established skills are tending to be displaced.

The arguments for widening the differential predominate, however. The wages of skilled workpeople must be sufficiently above those of the unskilled to induce recruits to industry to train and fit themselves for their chosen trade. Industry must have skilled men. There is also the matter of prestige. A major characteristic of the building industry has always been the quality and dignity of its craft force—the *élite* as they have often been called. This tradition is worth preserving, even in a world where standardisation is more and more being regarded as the accepted thing.

No doubt the National Joint Council took these considerations, and several others, into account when they decided to increase the differential by 1d. an hour from the middle of last April. They are arguments that the general workers unions have got to accept—and loyalty to the N.F.B.T.O. has nothing to do with it, except in so far as the building labourers have done much better under its banner than they could ever have hoped to do on their own.

Very Fine Art

THE Bedfordshire Standing Joint Committee consider it is essential for the efficient policing of the M.1 Motorway in their county that a police post should be built at Toddington. Not unnaturally, it was decided that the word "Police" should be displayed on the new post—a modest building costing £3,700—to assist the motorist. But in has stepped the Royal Fine Art Commission who thinks that labelling the police post would be inartistic, aesthetically wrong and unsightly and that it would be much better for the building to remain anonymous.

Wisely, the Standing Joint Committee has decided to disregard this advice, but is it not time that someone looked at the composition of the Royal Commission if this is the best it can do?

O.E.E.C. "DRAGON" REACTOR PROJECT

Main Civil Engineering Contract Awarded

EXTENSIVE foundation work for the O.E.E.C. "Dragon" reactor project is nearing completion and the main civil engineering contract has now been placed with Turriff Construction Corporation, Ltd., of London and Warwick. This contract includes the construction of the reactor building, control room and administration block, ancillary and technical buildings, roads, services and external works.

The "Dragon" project involves the construction of the high temperature gas-cooled reactor experiment at The Atomic Energy Establishment, Winfrith, Dorchester, Dorset, in which the United Kingdom Atomic Energy Authority are co-operating with 11 other European countries, under the auspices of the Organisation for European Economic Co-operation.

The contract will be supervised by the construction branch of the development and engineering group of the U.K.A.E.A., whose director is Mr. T. L. Viney, F.R.I.B.A., and whose chief architect is Mr. R. S. Brocklesby, A.R.I.B.A. The agent is Mr. L. S. E. Phillips. In charge of the whole of the construction at A.E.E. Winfrith, is the Authority's resident engineer, Mr. T. G. Williams.

Architectural Design

The nucleus of the design of the "Dragon" reactor group is the cylindrical reactor building with its flat domed top 80ft. above ground. Grouped around the reactor are the various control and service buildings which are two- and three-storeys high, so that the group is dominated by the reactor. The reactor is sited at a focal point at the end of the 1½-mile main entrance road at Winfrith Heath and is on rising ground which will give it some prominence at the establishment where the present buildings are on lower contours.

Surrounding the site on all sides are low rolling hills, tree and heather clad.

The reactor is a concrete structure and the ancillary buildings are steel-framed and sheeted with vitreous enamelled panel. Colours have been selected to ensure that the buildings are in harmony with the existing establishment but at the same time giving the scheme its individuality.

Construction

As previously stated the contract which has now been awarded to Turriff comprises the construction of the main reactor building, four other major buildings, and ancillary buildings, connecting links, service ducts, drainage, and the completion of the roadway layout. A preliminary or "opening-up" contract has already been carried out by this firm for the foundations of the reactor buildings and the initial stages of the roads and services, including the approach road from the main area of the Winfrith A.E.E. site.

For the foundation slab of the reactor building it was necessary to excavate a circular hole approximately 40ft. deep and 120ft. diameter at the bottom, through the peat, silt, sand and clay pockets which lie below the surface of this part of Winfrith Heath.

To keep the area of disturbed ground to the minimum, the sides of the excavation were dug to the steepest batter that would stand unsupported with safety in such ground (50 degrees), giving a diameter at the top of the hole of nearly 200ft.

Ground Water Difficulties

The greatest physical difficulty of construction work on the site has been the presence of ground water in considerable quantities just below the surface, which necessitated the extensive use of well-point

de-watering for all excavation except the very shallowest drains and foundations.

By siting the reactor on a relatively high area of the heath it could be anticipated that ground water would not be met until a much greater depth had been reached. In the trial bore holes this was found to be at about 28ft., and the method of excavation was planned accordingly.

Well-points 18ft. deep were installed at 7ft. 6in. centres below a berm formed at 27ft. before excavation was carried below this level, and two de-watering pumps, delivering a total of approximately 100,000 gallons per hour lowered the water table just ahead of the excavation, and kept the bottom dry for the time that it was exposed.

The saucer-shaped base of the excavated hole was blinded with a layer of weak concrete, into the centre of which was embedded, at a ceremony on April 27, 1960, a stainless steel cylinder containing coins of the O.E.E.C. countries, and documents commemorating the occasion.

Main Foundation Slab

On top of this was poured the main foundation slab, 12ft. thick in the centre, in three layers, each containing several "mats" of heavy steel reinforcement, each resembling a huge 12-sided spider's web.

The slab is extended on the west side to form the base of the peripheral services duct, and on the north side as the foundation of the vehicle air lock, which will give access to the reactor building at ground level. Also incorporated in extensions of the foundation slab are two of the anchors for the guy ropes of the 100-ton pole derrick crane which will be used to lift the reactor core itself and other heavy components into the building over the top of the 90ft. high walls of the containment structure.

Excavation for the foundation slab was commenced on March 24, 1960, and placing of the concrete was completed on July 18, two weeks ahead of the programme.

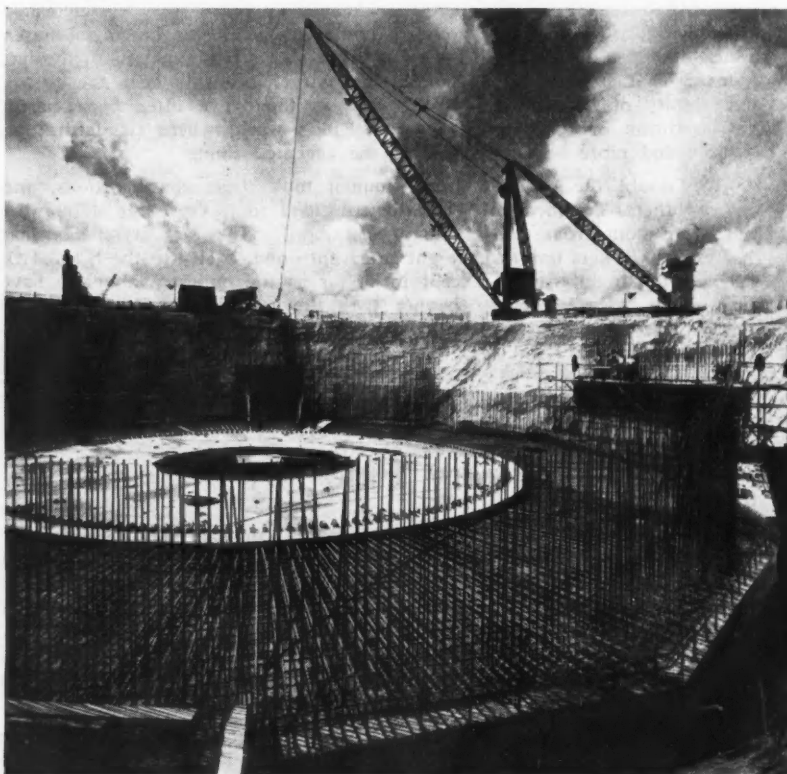
Concrete Reactor Building

The most important item in the new contract is the main reactor building. This is a cylindrical structure with a domed roof, 110ft. diameter and 110ft. 6in. high above foundation slab. The exterior shell is formed of two concentric reinforced concrete walls 15ft. apart and generally 2ft. thick, and a domed roof of reinforced concrete 15in. thick, containing an "umbrella frame" of heavy steel beams, and lined on the soffit with steel plate.

In the space between the two walls are the numerous chambers, situated on five floor levels, which contain the control points for operating the reactor and watching its functioning through radiation-proof observation panels, and various items of cooling and ventilating plant.

A special feature of this concrete structure is that the containment consisting of the outer wall and roof is to be made "leaktight"—that is, sufficiently airtight to withstand a specified air pressure without significant leakage.

Normally this condition of reactor design is obtained by the use of a welded steel outer containment, such as the huge sphere which dominates all views of the Dounreay establishment, but for Dragon the structural concrete itself is to be made to fulfil this function. Although the technique of making concrete waterproof has been perfected long ago, very little is known of the factors which will ensure its airtightness, and practical experience is limited to work done during the last year or two in other establishments of the U.K.A.E.A. Nothing on the scale of the Dragon containment has ever been attempted before, and this part of the



Heavy reinforced concrete foundations for reactor

concrete construction will in itself constitute a significant item of research.

Immediately inside the inner of the two cylindrical concrete walls is the inner containment of welded steel construction, the subject of a separate contract. Inside this again is further concrete construction, consisting of the support for the reactor core, which combines a biological shield of 5ft. 9in. thickness of concrete of guaranteed density. This is continued above and over the reactor core and charging machine, with portions made removable for access or modification at any time. Between the core structure and the steel containment are a ring of cells formed in reinforced concrete, to house the fuel storage and handling equipment, primary and secondary heat exchangers and further inspection and experimental facilities.

Certain portions of the walls and partitions are in barytes concrete or iron shot concrete, where the extra protection afforded by these materials is necessary. All parts of the concrete structure incorporate innumerable openings and fixings that are required for access of personnel and materials and the passage of all the service pipes and cables, control gear, and observation panels; and one of the major problems of construction will be the effective sealing, against leakage of air or radiation, of all these potentially weak spots.

Other Buildings

The other buildings on the "Dragon" site, while comprising a major proportion of the contract value are, however, of more conventional construction. Externally the walls are clad with vitreous enamelled steel sheets and patent glazing; internal linings and partitions are mainly of brick-work.

The largest of these is the services building, containing an electrical substation, with all necessary control gear, workshops, boilerhouse, and offices. The structure is partially steel-framed with concrete walls and roof.

The control building, partly two- and partly three-storeys high, has, besides the main control room, the administration

tanks and fuel tanks for the domestic heating boilers.

The main buildings and tank areas are connected by underground services ducts, large enough for adequate access to the many cables and pipes which they will contain, and there are three (in places four) separate systems of drainage covering all areas of the site.

As with all projects of this nature, planning is of the utmost importance. An overall programme for the building and civil engineering work has been set by the U.K.A.E.A. to co-ordinate progress of construction with the delivery and installation of the steel inner containment, the reactor vessel and fuel handling plant, the heat exchangers and cooling equipment, the ventilation plant, and the many other items of specialised equipment that have to come from various parts of the United Kingdom and the Continent, to be incorporated in the "Dragon" project as it develops to completion early in 1963.

Within this overall programme, much detailed planning of work operations is involved, especially to deal with the very extensive items of concreting that need to be completed during the period of the coming winter months.

The value of the civil engineering work, including foundations, is in excess of £1m.



Aerial view of reactor site

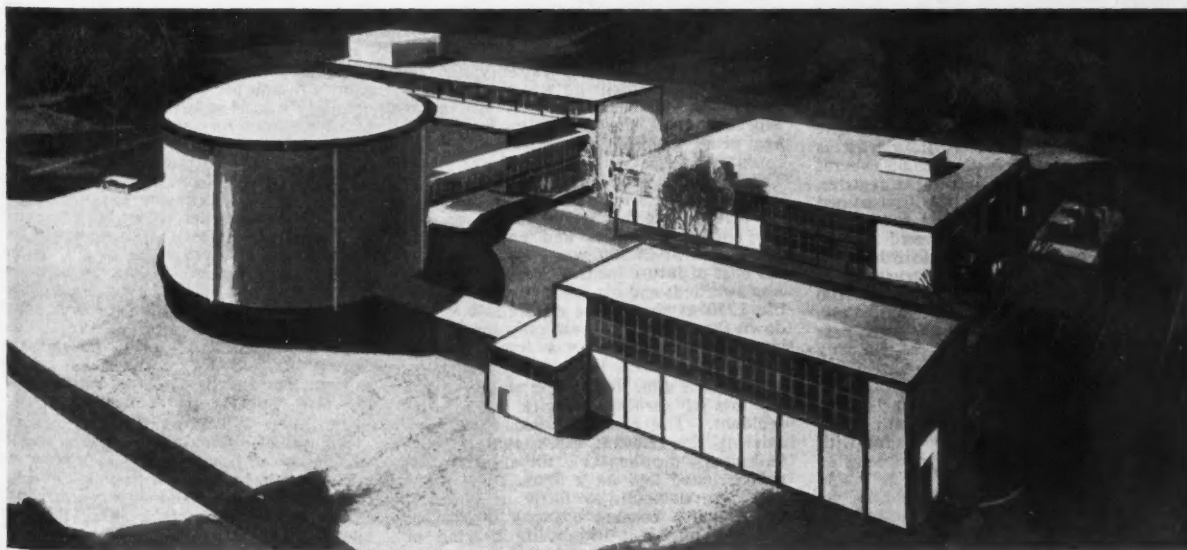
JOINT BRITISH COMMITTEE FOR STRESS ANALYSIS

Following an exploratory meeting on March 1, 1960, arranged by the Institute of Physics, a Joint British Committee for Stress Analysis has been set up.

This committee will represent the interests of Great Britain in the field of stress analysis at the periodic meetings of the Permanent Committee which are held in Europe and will thus ensure adequate British participation in international conferences in the field of stress analysis.

The Joint British Committee consists of representatives appointed by The Royal Aeronautical Society, The Institution of Civil Engineers, The Institution of Electrical Engineers, The Institute of Marine Engineers, the Institution of Mechanical Engineers, The Royal Institution of Naval Architects, The Institute of Physics, and the Physical Society, The Institution of Structural Engineers and the Institute of Welding.

Mr. A. F. C. Brown of the National Physical Laboratory, and the representative of the Institution of Mechanical Engineers, has been elected the first chairman of the committee, and the Institution of Mechanical Engineers provides the Secretariat for the Committee.



Artist's impression of view of "Dragon" reactor project from the north east

A LAWYER CONSIDERS . . .

Controlling Shareholders and Death Duty—Damages for Loss of Earnings—Working Without Instructions

THE construction industry perhaps more than any other consists of small to medium size family businesses which have limited their liability by becoming private companies. As the controlling shareholders get older one of their worries is to pass on their business to their successors without having to find too much estate, or death, duty as it is usually called.

It can happen that in some private companies the perhaps sudden and unforeseen death of the head of the business will mean that his personal representatives have to agree a value for his shareholding in the family company which is the value at the date of death; due to this death, however, the company may well suffer a year or two of bad trading and the value of those shares may drop heavily and rapidly; but the value for estate duty purposes is that at the date of death and the personal representatives and the family may have to sell assets at the wrong time and for a most disadvantageous price to meet the estate duty liability.

It is, of course, to meet this sort of problem that as the principal shareholders, very often the founders of the business, grow older they are advised to transfer their shares. This of course creates a problem; it is never easy for older people to pass control, particularly over something they have spent their lives in building up, to others, though if those "others" are their children who have come into the business this is not so serious a problem. Against this problem must, however, be set the fact that retention of control will result in a high valuation of the controlling shares and the only way to avoid this is to transfer the shareholdings. It is a difficult decision to make but one which every controlling shareholder in the average small or medium private company should consider with his solicitor and accountant when he gets to later middle-age.

A recent case in the House of Lords, *Barclays Bank, Ltd. v Commissioners of Inland Revenue* [(1960) 2 All E.R. 817], illustrates the importance of this subject and points the moral that to lose control and thus reduce the value of the shareholdings you must, to be safe, so lose control that, however ingenious the Revenue, they could not argue that direct or indirect control remained with the deceased.

The short facts were that T.S. held on his death 1,100 ordinary £1 shares of T.S., Ltd., whose issued ordinary share capital was 8,350 £1 shares. In 1936 T.S. had settled 3,650 shares on trusts for his wife and children. He was one of four trustees registered as holders of those 3,650 shares and his name appeared first in the register. By the company's articles the first-named registered holder was entitled to vote in respect of the shares registered in his and others' names; T.S. therefore had the right to vote in respect of the trust shares as well as in respect of his own 1,100 shares. Now by the Finance Act, 1940, Section 55, where, upon death, there pass shares in or debentures of a company which is controlled by not more than five persons, then, if the deceased had the control of the company at any time during the five years ending with his death, those shares are not valued in accordance with the usual valuation rule (i.e., market value at death) but by reference to the net value of the assets of the company including its goodwill. The question therefore arose—did T.S. have control of the company so that his 1,100 ordinary shares would have to be valued by reference to the net

value of the assets of the company and not at market value? The net assets valuation would normally, and did so here, produce a greater valuation; hence T.S.'s executors fought this case to try and establish that T.S. did not have control.

The House of Lords had to decide on the wording of the 1940 Finance Act whether T.S.'s vote as trustee, plus his vote as an ordinary shareholder of 1,100 shares, was sufficient to say that T.S. did control the company in the five years before his death. Unfortunately, the Act provides no clear definition of control but the House was satisfied that the mere fact that in exercising his vote as trustee he was amenable to control by other trustees did not suffice to show that, together with the votes in respect of his own 1,100 shares, T.S. was not in control of the company at his death. His 1,100 shares had therefore to be valued on the higher basis.

In this extremely difficult field of arranging a person's affairs so as legitimately to ease the often crippling burden of death duties, particularly where a death is sudden and unexpected, the best possible advice should be obtained. This case illustrates how easy it is to slip up in this matter and lose the benefits desired.

Damages for Loss of Earnings

The financial loss resulting from an accident can be very large and the methods adopted by the courts in assessing such loss are of interest as a case involving a serious accident to a builder shows. The case is *Pope v D. Murphy and Son, Ltd.* [(1960) 2 All E.R. 873] in which P claimed in respect of a road accident in which he, his wife and mother-in-law were injured. The defendants, D., Ltd., admitted liability and the only question for the court was the amount of general damages he could recover; the special damages, i.e., actual expenses incurred as a result of the accident, were left to be decided at a separate inquiry.

At the time of the accident P was an active 52-year-old master builder employing seven skilled men and two labourers and his work included private surveys, decoration and ordinary maintenance. His small firm was well run and he had a good name in the trade. His profits were about £750 per annum. Before the accident he had thought of selling up and going back to work in the building industry in some supervisory capacity. As a result of the accident he was a permanent invalid, in pain and with a maximum expectation of life of 10 years though five years was all the expectation that could be given with any real certainty. The Court decided that for P's physical injuries, his pain and suffering to date and for the years to follow and for the loss of the normal amenities and enjoyment of life a sum of £9,500 was appropriate; for the cost of future medical attendance £250 was awarded; and for loss of expectation of life £250 as the House of Lords has laid down that under this head only small sums are appropriate as it is impossible to measure such loss in financial terms.

The most difficult problem was to assess P's loss of earning capacity due to the accident. The court decided, after considering the relevant cases, that it must look at the problem as if the accident had not occurred and fix a figure that would take into account, as fairly as possible, the probable earning capacity of P over the rest of his working life bearing in mind normal chances and changes; it was the latter which would prevent the court

taking the easy way of deciding that P at 52 had say 13 years of active working life left and multiplying his earnings figure of £750 by 13; the court also rejected the view that it must limit the period of working life for calculating probable earnings to that period in fact left to P, namely five, or at most 10 years—to accept that view would be tantamount to allowing a wrongdoer to reap a financial benefit from his wrongdoing. Acting on these principles the court felt that a sum of £5,000 would be a fair estimate of P's net earning capacity for the remainder of his life had this accident not occurred. He thus received a total of £15,000 damages.

From the fairly large damages awarded in this case contractors will realise the necessity of really adequately covering their liability individually and as contractors for negligence resulting in injury or death to third parties. After all the third party to whom such liability may be incurred might well be a man earning £7,500 a year and not £750 and the resultant damages can be imagined. Quite clearly, it is a false economy to restrict insurance cover to a small sum for each claim; any liability to a third party in excess of that for which the person liable has insured must come from the person's own resources and this is a risk which no contractor should run.

Working Without Instructions

A CASE which contains no new law but can be regarded as an awful warning is *Emerson v Eden* reported in *The Estates Gazette* for July 23, 1960. The facts apparently were that a lady Mrs. E. arranged through John Eden, the managing director of a firm of building contractors, to buy a house for £5,250. There were discussions as to some demolition and on return from holiday Mrs. E. found that the contractors had demolished a large part of her house, removing certain fixtures and fittings. She claimed damages for trespass and conversion of her property and the contractors counter-claimed for loss of profit on a contract for demolition. The question was—was there an agreement for this work to be done?

On this there was one of those very difficult conflicts of evidence between two people whom the learned judge, according to the report, felt to be both fundamentally honest. No doubt it was one of those jobs for small private clients where there is an immense amount of talk and discussion so that at the end neither party knows precisely what has been decided. At any rate John Eden finally came away from the discussions before Mrs. E. went on holiday fully believing that he had authority to carry out the demolition work. The learned judge was, however, satisfied that Mrs. E. was not likely to have ordered the demolition unless there had been some definite agreement on the extent of the work and the charges to be made; he was clear that Mrs. E. was most unlikely to have gone away on holiday leaving the extent of the demolition at Mr. Eden's discretion. He therefore found that the contractors had not received instructions to demolish any part of the building and Mrs. E.'s claim therefore succeeded.

The judge apparently went on to point the moral by saying that this was a case which showed how vital it was that agreements should be made in writing and commented that it was almost incredible that a builder of any experience should have knocked down a substantial portion of someone's house without having a word in writing.

PRECAST STRUCTURAL MULLIONS SUPPORT NEW THREE-STOREY L.C.C. SCHOOL

EXCEPT for the assembly hall and two gymnasia which form a separate block, the whole of the accommodation of the new Rutherford Secondary School, St. Marylebone, including the caretaker's house, is contained in one three-storey teaching block, nearly 100yd. long.

This design, executed for the L.C.C. by Leonard Manasseh and Partners, 39 Bedford Street, London, W.C.2, was dictated by the site, part of which is taken up by the Bellfield School which remained open during construction and will now be demolished to provide playground space.

The elevations are extremely simple, relieved only by a pyramid roof over the assembly hall and an inverted pyramid containing the water tanks on the teaching block. The teaching block is supported by a system of precast, reinforced concrete structural mullions and beams at 3ft. 8½in. centres with projecting nibs to the mullions. Each mullion is cast in one lift about 40ft. high, and taken finished straight from the mould. No further finish is applied.

The 15in. deep floor beams at each mullion span back to columns at similar centres on each side of a central corridor. The teaching block is virtually two buildings—lengthways—as the beams are not continuous over the corridor.

All services are taken down the central corridor at each level, and fan out to the rooms at each side, with the exception of the radiators under the windows, which

are served continuously through prepared pipe chases in the structure. Floor slabs are also precast and are 3ft. 6in. square and 2in. thick. A variety of suspended ceilings is slung under the beams.

wind load. The pyramid is faced with green slates, mitred and secretly flashed at the angles.

Layout of Rooms

This is one of the schools to adopt the decentralised "House" system of organisation. There are four house rooms located on the first floor. "House" activities take place in these rooms and meals are eaten in them. There are two serveries each serving a pair of house rooms by means of lifts from the ground-floor kitchen.

The ground floor, from north to south, contains the caretaker's flat, the upper part of the two-storey boiler room, the kitchen, the main entrance hall with twin staircases leading out of it, the administration block with staff rooms and, separated by a baffle lobby and a 9in. brick wall, the metal and wood workshops, with their stores and separate goods entrance. There is a third staircase at the south end of the teaching block, with lavatories on the half landing.

The first floor contains the house rooms and serveries, the main cloakroom accommodation, an evening institute and, above the workshops, all the laboratories.

On the top floor are the library with a projecting window facing north and west, and the classrooms and the art room with a pottery kiln. This floor has the central corridor top lit for most of its length. The south staircase continues up to the biology greenhouse on the roof.

The assembly hall-gymnasia group is arranged symmetrically on the canopy-entrance hall-covered way axis. Changing rooms on each side of the assembly hall separate it from the gymnasia. The two changing rooms can be used as male and female dressing rooms when the stage is used for public performances, and to this end the partitioning in the lavatories is adjustable. The assembly hall has gallery seating in addition to the main seating, which is sunk 3ft. 6in. below the stage, instead of the stage being raised up.

As the site is so restricted, planting and landscaping is confined to lawns and a pool outside the administration area, a few trees to be planted on the periphery of the playground and two paved courts between the teaching block and assembly hall. One of these has been dealt with as a formal "parterre," with ramps, steps, pools and formal planting.

The main contractors for the building were Gee, Walker and Slater, Ltd., 100 Park Lane, London, W.1.

DIRECTOR-LEVEL MANAGEMENT CONFERENCE FOR BUILDERS

A director-level only management conference for the heads of building firms has been arranged by the Building Advisory Service, on behalf of the National Federation of Building Trades Employers, to take place at the Waldorf Hotel, London, on October 11 and 12 next.

The subjects to be dealt with will include the functions of management, human relations, work study, planning, training and development of executives, incentives, management accounting and communications.

Applications for places on the course should be addressed to the Building Advisory Service, 82 New Cavendish Street, London, W.1. The fee for each delegate will be £7 7s., to include lunch and light refreshments on each day. The number of places on the course is strictly limited and early application is advisable.



Main teaching block and entrance

This system of structural mullions and beams is continuous over the three floors, and is only broken where large openings occur such as the main entrance and the goods entrance for the workshops.

The assembly hall and teaching blocks are connected by a covered way, which continues through to the entrance hall and canopy to the main entrance. The main entrance hall is faced with marble with the structure exposed above it. Here, there are large precast beams, necessitated by the break in the grid and the load of the water tanks which is brought down at this point.

Lateral stability is obtained by the staircases and surrounding brick walls and the grouting-in of the floor slabs; transverse stability likewise and by certain solid brick transverse partitions and the white glazed brick end walls.

The gymnasia are of a wide cavity-brick construction concealing 18in. by 9in. brick piers, which support short-ended portal frames of cut and welded steel beams holding up the roof. Lighting is from clerestory windows.

The assembly hall is a steel frame structure. Four cranked raking beams which form the pyramid and the flat roof are supported by four steel box columns. Intermediate supports bear on the four rakers. The glazing is in heavy section timber frames which take part of the



Assembly hall flanked by the gymnasium with Bellfield School in the background

BIRMINGHAM UNDERPASS CONTRACT FOR TARMAC

TARMAC CIVIL ENGINEERING, LTD., have been awarded contracts totalling £440,000 for the construction of an underpass at Birchfield Road, Birmingham, and the reconstruction of the railway bridge at Perry Bar Station.

The scheme, which is for the Birmingham Corporation, is under the supervision of the city engineer, Sir Herbert J. Manzoni, C.B.E. Sir William Halcrow and Partners are the consulting engineers. It involves widening the existing Birchfield Road to form dual 20ft. slip roads and constructing a 40ft. wide underpass for a distance of 400yd. A feature of the underpass is that heating elements are to be incorporated in the road construction for use during icy weather conditions.

The work also includes widening Aston Lane and Wellington Road to form dual carriageway for a distance of 230yd.; construction of a junction roundabout, together with pedestrian subways, footbridge, and two post-tensioned concrete bridges for carrying the roundabout over the underpass; and re-laying all sewers and public services.

A start is expected to be made in the autumn and the contract period is 18 months.

WHITE CITY STADIUM IMPROVEMENTS TO COST £200,000

Work will start next month on a scheme for modernisation and improvement of the popular side at White City Stadium, London, W.12. The work will cost about £200,000.

A new glass-fronted enclosure, 240ft. long and 47ft. high is to be built into the existing stand, and a new covered entrance area is to be provided with escalator and stair connections to the three tiers of the enclosure. Reinforced concrete construction will be used and the new buildings will be heated by ducted warm air. Between 3,000 and 4,000 people will be accommodated in the enclosure which incorporate several refreshment bars and new totalisator facilities.

The contract for the work has been placed with Ford and Walton, Ltd., Warton Road, London, E.15. Plans are by Begbey and Meers, 12 St. Pancras Lane, Queen Street, London, E.C.4, and the consulting engineer to the Greyhound Racing Association is Mr. T. J. Dawes.

SOUTHAMPTON BUILDING SITE AUCTION

A valuable site overlooking Southampton Common, Bassett, Southampton, for which outline planning permission has been obtained for redevelopment to 154 flats, is to be auctioned on September 28, according to an advertisement appearing on page 767 of this issue. Known as Boldwood Court, the site extends to nearly four acres, has main services and long road frontages. The joint auctioneers are Sawbridge and Son, Southampton and Hall, Pain and Foster, Fareham, Hants.

18-STOREY HOTEL AT BOURNEMOUTH

Bournemouth B.C. have been recommended by their town planning committee to grant planning permission for the erection of an 18-storey hotel on the site of the Royal Exeter Hotel and Exeter Road. The scheme will include a conference centre, shops, restaurant, bars, dance floor and garage accommodation. Greens and Cross, Metropole Chambers, The Lansdowne, Bournemouth, are the architects.

£1½M. CONTRACT FOR ST. JOHN'S WOOD ESTATE

THE Taylor Woodrow Group have been awarded a contract valued at £1½m., for the development of a private estate of 207 dwellings at St. John's Wood Park, London, N.W.8.

Norwich Union Insurance Societies are undertaking the development, having leased a 5½-acre site for 125 years. Building is expected to take about two years.

The scheme comprises four blocks of flats of two- and four-bedrooms, and 17 private houses each of three- or four-bedrooms. The flats will be in two main blocks, each in two parts of eight and 11 storeys at right angles to each other, and two four-storey blocks. The houses will be in three-storey terraces.

T. P. Bennett and Son, 43 Bloomsbury Square, London, W.C.1, are the architects.

LONDON ENGINEERS FOR £1M. BELFAST BRIDGE

R. Travers Morgan and Partners, London, have been recommended as consulting engineers to prepare plans for a £1m. road bridge over the River Lagan in Belfast.

At a recent meeting of the City Council's Improvement Committee, the surveyor reported that 11 firms had been invited to submit applications to carry out the scheme, seven of which were recommended by the Association of Consulting Engineers.

The appointed engineers will report on the merits of steel and concrete for the superstructure of the bridge, which will be sited downstream from the present Queens Bridge. Construction is expected to take two years from commencement.

LOWEST TENDER FOR QUEENSLAND RAILWAY RECONSTRUCTION

Davis Construction, a subsidiary of Davis Contractors, Ltd., London, are part of an international consortium which is reported to have submitted the lowest tender for a railway reconstruction scheme in Queensland costing about £2m.

The contract covers the first 242-mile section of a £23.2m. project to reconstruct 700 miles of railway from Mount Isa to Townsville. Included in the consortium are Kaiser Construction of the United States.

TENDERERS FOR 20-STOREY FLATS AT GORBALS

A list of tenderers for Area C of the Hutcheson/part Gorbals redevelopment has been approved by Glasgow City Council. This involves the erection of two blocks of flats, each 20 storeys high.

Firms to be asked to tender in competition with the direct labour department include: Blackburn (Dumbarton), Ltd., Gilbert-Ash, Ltd., Holland & Hannen and Cubitts, (Scotland), Ltd., John Laing and Sons, Ltd., Leslie and Co., Ltd., Melville, Dundas and Whitson, Ltd., Tersons, Ltd., the Taylor Woodrow Group, and Trollope and Colls, Ltd.

OPENCAST LIMESTONE MINING PROPOSAL

A new cement factory is planned near Dunbar, East Lothian, by Associated Portland Cement Manufacturers, Ltd., as part of a £4m. proposal entailing the winning of limestone from the 325-acre site by opencast mining. Subject to permissions, some 400,000 tons of cement will be produced by the works.

Late Construction News

CONTRACT FOR "TIMES" OFFICES.—Subject to checking, the tender of Trollope and Colls, Ltd., is to be accepted for the complete reconstruction of the site and offices occupied by "The Times" at Printing House Square, London, E.C.4. Multi-storey offices are planned on three sides of an open courtyard. Richard Llewelyn Davies and John Weeks are the architects in association with Ellis, Clarke and Gallanagh. The consulting engineers are Ove Arup and Partners, 8 Fitzroy Street, London, W.1, and the quantity surveyor is Sydney Gordon, Finsbury House, London, E.C.2.

FACTORY EXTENSION CONTRACT.—Higgs and Hill, Ltd., have been awarded a £100,000 contract for building a four-storey extension to the factory premises in Burlington Lane, New Malden, of The Shannon, Ltd. The architects are Wallis, Gilbert and Partners, 5 Cromwell Road, London, S.W.7.

BRIDGE OVER MOTORWAY.—Work will begin next month on the construction of a bridge to carry the railway over the Birmingham/Preston Motorway at Knutsford. Worth £90,000, the contract provides for a bridge with two 80ft. spans and a steel plate girder deck with concrete infilling. The contractors to the Ministry of Transport are George Dew and Co., Ltd., Main Road, Oldham.

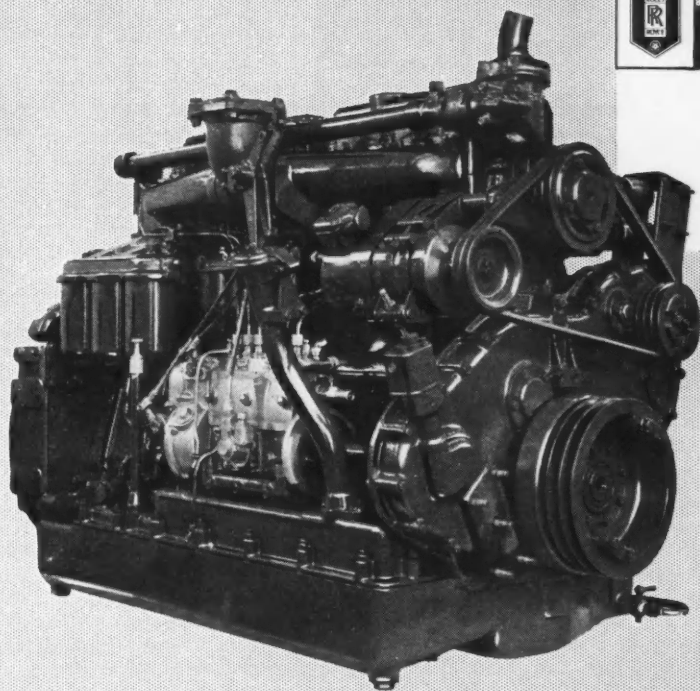
RECONSTRUCTING BIRMINGHAM STATION.—British Railways (London Midland Region) have placed a contract with Terresearch, Ltd., Ruislip Road, Northolt, Greenford, Middx., for soil investigation in preparation for the reconstruction of Birmingham New Street Station.

HONG KONG PIPELINES.—A consortium comprising J. L. Kier and Co., Ltd., London, Healey and Tibbitts of the U.S., and Paul Y. Hong Kong, has been awarded a contract by the Hong Kong Government for laying two 30in. diameter pipelines to carry filtered water from Lan Tao Island to Hong Kong. The pipelines will each be eight miles long and will be buried below the sea bed. Binnie, Deacon and Gourley, London, S.W.1, are the consulting engineers.

ROVER'S CARDIFF WORKS.—A start is expected to be made before the end of the year on the Rover Co.'s £6m. scheme for factory development at Pengam Moor, Cardiff. Hasker and Hall, Longdon House, High Street, Knowle, War., are the architects, and the following consultants have now been appointed: Crosher and James, 329 High Holborn, London, W.C.1, quantity surveyors; T. Bedford and Partners, 41 New Bond Street, London, W.1, consulting engineers for the steelwork and foundations; and Hoare, Lea and Partners, 52 Green Street, London, W.1, electrical consultants.

20-STOREY BIRMINGHAM BLOCK.—In October, work will begin on the £1m. Rotunda, a 20-storey shop and office block at Bull Ring, Birmingham. It is expected to be completed in 18 months. George Wimpey and Co., Ltd., are the contractors for the development, which is promoted by Property and General Investments, Ltd. Plans are by James A. Roberts, Channele House, 86 New Street, Birmingham, and the consultant structural engineers are Charles Weiss and Partners, 1 Wandsworth Road, London, S.W.8.

RICHBOROUGH POWER STATION.—The £650,000 tender of Turriff Construction Corporation, Ltd., Warwick, has been accepted by the Central Electricity Generating Board for construction of the superstructure of the Richborough Power Station, Kent. Work has just started and the contract period is four years. Mott, Hay and Anderson, 9 Idlesleigh House, London, S.W.1, are the consulting engineers.



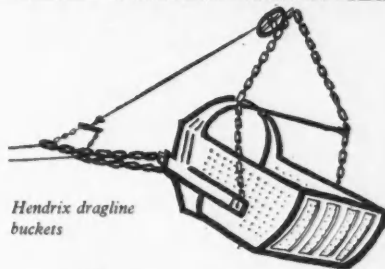
ROLLS-ROYCE Diesels

4, 6, 8 cylinders
UNSUPERCHARGED
SUPERCHARGED
TURBO-CHARGED
70-700 h.p.

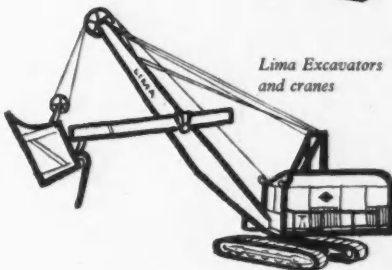
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New engines: A Rolls-Royce engine, fitted as a replacement in existing equipment, means efficiency and reliability, less fuel used, longer periods between overhauls, and the advantage of parts rationalisation used over engines of different power ranges.

Service Exchange Engines: When the time comes for overhaul, or fitting a service exchange engine, the Jack Olding Organisation can provide a fast, efficient service covering replacement engines, complete overhauls or reconditioning individual components.



Hendrix dragline buckets



Lima Excavators and cranes

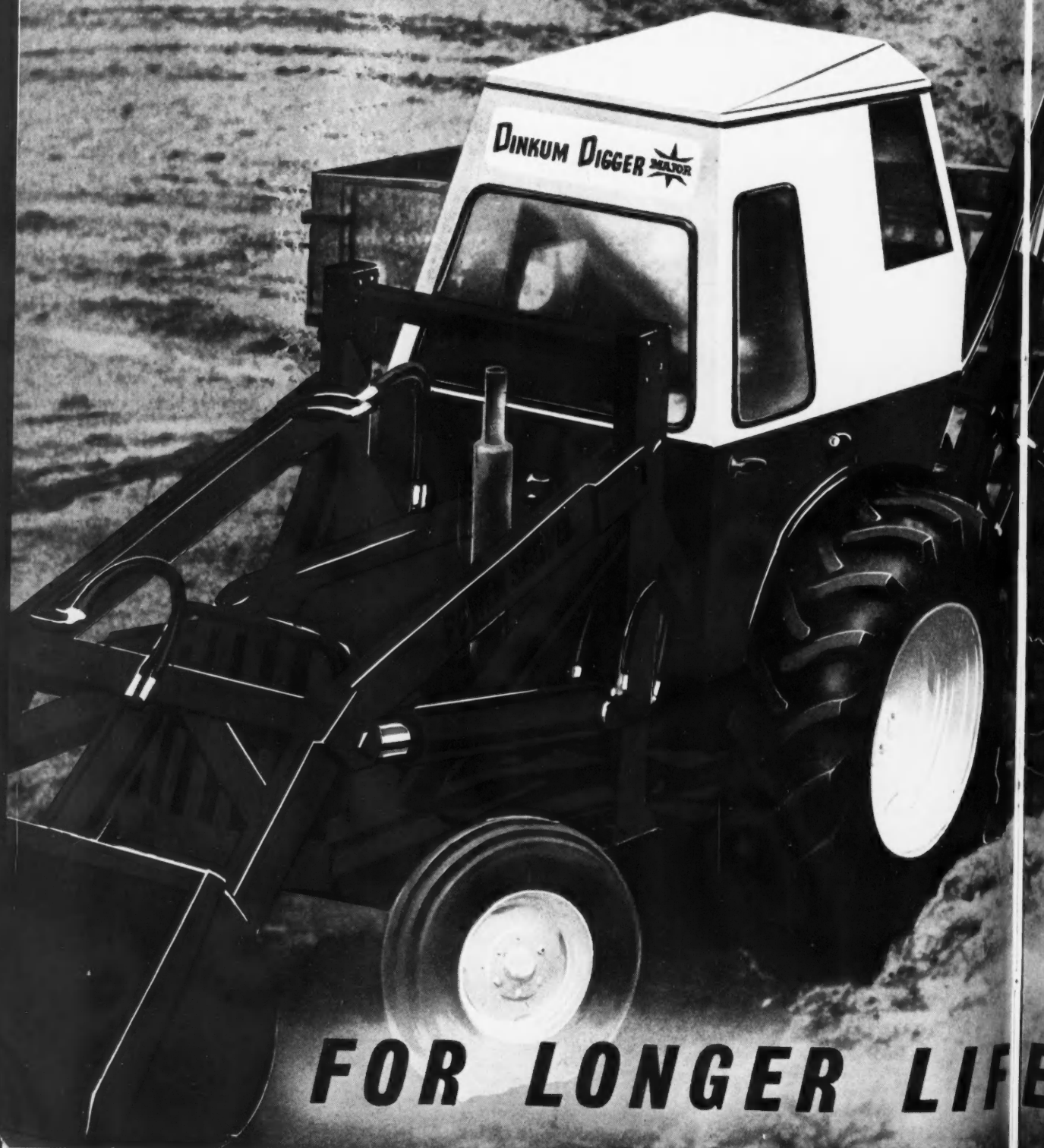


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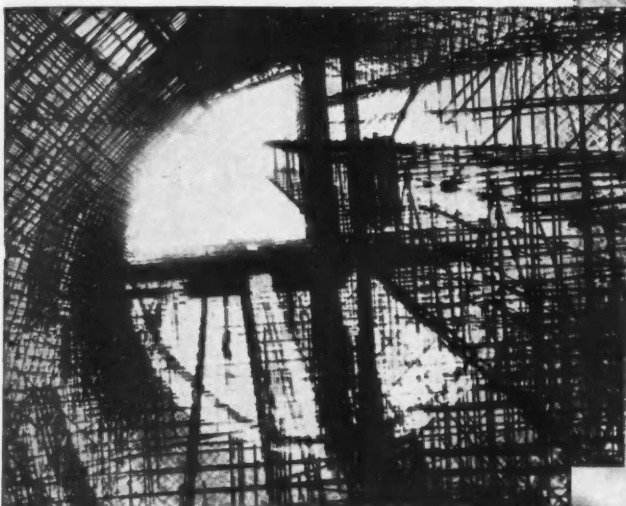
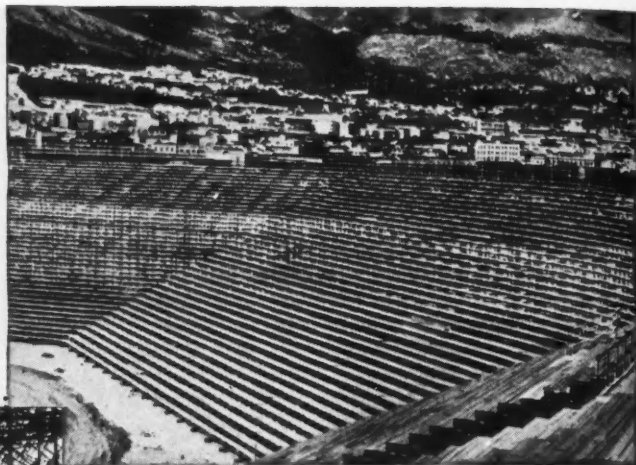
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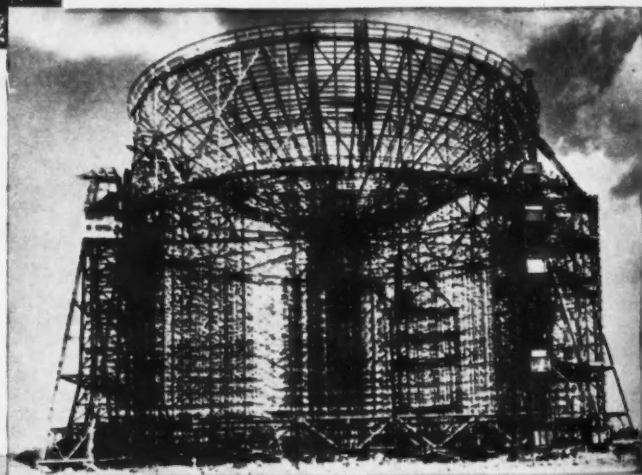
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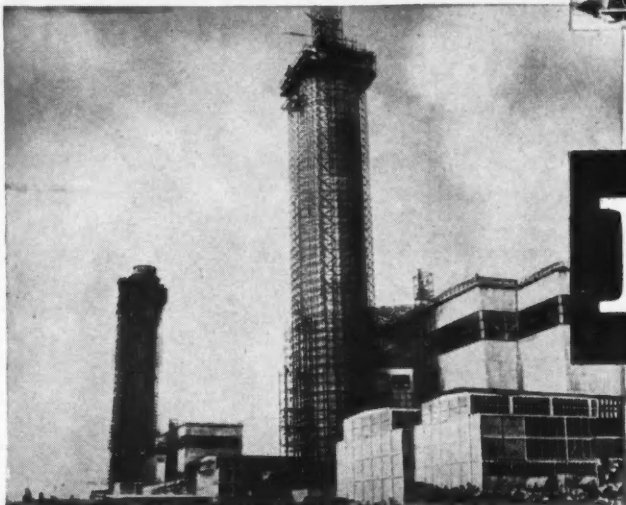
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VICKERS TRACTORS HELP SHAPE DONCASTER BY-PASS



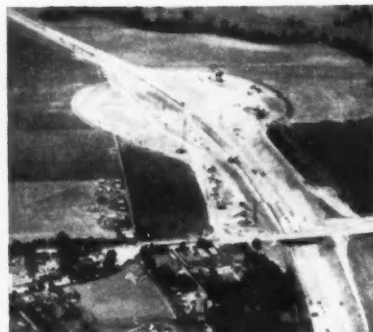
'With their articulated suspension those Vickers tractors can go anywhere—fast!' says Mr. R. T. Goodman, Plant Manager.

THE DONCASTER BY-PASS—vital new 14 mile link in the busy A1. The work force of the contractors on this £5,000,000 project, Cubitts—Fitzpatrick-Shand, includes two Vickers Vigor tractors. In tough use, sometimes working on rock, these machines have maintained an aggregate availability of 92.4%.

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There's a complete range of matched earthmoving equipment to work with the Vickers tractor. And wherever a contractor may be, in this country or overseas, he can be certain of prompt on-site service and spares for all his Vickers equipment.



Aerial view of the Doncaster By-pass—one of the major road constructions now being undertaken in Britain. Extending for 14 miles and costing £5 million, it will cut out a serious bottleneck in the vital A.1. route to the north.

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D.S.I.R. TO STUDY HOSPITAL BUILDING COSTS

Building Research Station Annual Report

HOSPITAL design and construction is to be investigated by the Building Research Station and a programme of research is now being arranged with the Ministry of Health and the Department of Health for Scotland. This is announced in the annual report* of the Station now published.

Government expenditure on hospitals is to increase substantially—it may amount to £300m. over the next six or seven years—and there is much scope for rewarding research in this field. For example, the cost of engineering services in hospitals (heating and ventilation, operating theatre services, lighting, etc.) can amount to a third of the total building cost. Ways of providing these services more economically will be studied by the Station. Cost studies will also be carried out on recently constructed hospitals in an effort to identify other parts of the building process where economies might be achieved. It should be possible to pick out anomalies in building costs between different hospitals of similar capacity and to trace their causes.

Engineering services are important not only in hospitals. In most large buildings, engineering installations have become increasingly complex and expensive. Their integration with the building design and in the process of construction frequently cause dislocation and delay. The Station is investigating these problems.

Cost of Housing

During the year a study was completed on the relative costs of providing housing by high blocks in city centres, by suburban development and in new towns. In general, the scope for using high block residential buildings as a means of reducing the cost of providing housing and urban amenities was found to be very limited. Their construction cost is about two-thirds greater than that of two-storey houses and maintenance costs are also considerably higher.

The advantage of high density redevelopment in the centre of cities is that it reduces the number of people who have to be rehoused in suburbs or new towns. Suburban development may cost £750,000 for every 10,000 people, and the cost of a new town for 80,000 may be nearly £100m. However, the real cost of new development is less because it has longer potential life than the old buildings, and is cheaper to run and to operate in.

Nuclear Reactor Shields

In the massive concrete structures used for biological shielding in the reactors being constructed for the British nuclear power programme, the effects of temperature, drying shrinkage, creep and radiation are important factors. A two-part research programme has been undertaken in collaboration with the U.K.A.E.A. Industrial group: first laboratory studies of the properties of concrete, and secondly long-term observations on the shields at Calder Hall and Chapelcross. In the first reactor to become operational, Calder Hall, observations show that little drying of the concrete has yet taken place and that concrete temperatures are rather lower than expected. Instruments have also been installed in two of the Central Electricity Generating Board's nuclear stations.

Research on Tunnels

The excavations on the South Bank of the Thames for the new Shell Headquarters went down to 40ft., to within 4ft. of the Bakerloo tube tunnels, over a distance of

about 120yd. Work on the design of tunnels has been in progress at the Station for several years and this was a valuable opportunity for practical investigation. In collaboration with the London Transport Executive, the Station has been taking measurements at intervals during the year of the deformations and stress changes in the tunnel linings. Although all the data obtained has not yet been analysed, the broad effect of removing the soil above the tunnels has been found to be a slight displacement and change in shape in the tunnel. The vertical diameter of the southbound tunnel, which lies on top of the northbound and was affected most, increased by about $\frac{1}{4}$ in. There was also a general reduction in the compressive stresses in the cast-iron lining.

Flat Roofs

The use of flat roofs seems to be increasing in all types of buildings, both domestic and industrial. One problem that has led to frequent troubles is the movement of moisture inside the roof structure when the outside temperature changes. Water vapour cannot escape from the humid interior of a building through a flat roof as it can through a tiled one, and condensation can occur. Excess water is also present in a concrete roof cast in situ and is difficult to dry out. A working party has been set up to study these problems by the International Council for Building Research, Studies and Documentation. During the year the Station started contributory experiments on the thermal properties of six different types of flat roof in the pilot-scale roof laboratory.

Sound Insulation of Buildings

To be effective barriers to sound, walls and floors should be as massive as possible, but with recent advances in structural design, sound installation now requires much additional and otherwise useless weight in partitions in flats, schools, hospitals and offices. As a continuation of field work, two specially designed experimental buildings, one brick and one frame, are now coming into use at the Station. Each comprises two floors with four rooms in each, providing four party walls and

four party floors. A series of wall and floor constructions will be tried, starting with an investigation of various materials for the resilient layers of floating floors.

Heating of Flats

To help local authorities in their decisions on space and water heating systems in multi-storey flats, the Station has made a study of the efficiency of different methods. Four types of system were examined: individual solid-fuel appliances, electric floor-heating with radiant fire topping up, individual gas heating, and central heating. A report now being prepared for publication will include data on capital, maintenance and fuel costs, as well as the results of a survey on the occupants' opinion of the systems.

Failure in Plaster Adhesion

During the year several large-scale failures have been again reported in adhesion of plaster applied to concrete, most of them following a rise in temperature. Evidence points to the view that, where there is weakness in adhesion, failure is due to stresses set up by differential thermal expansion between the plaster and the background. With limestone or granite concrete this differential expansion is double that with gravel concrete. Adhesion can be substantially improved by wetting down the surface immediately before applying the plaster, or by using a suitable bonding liquid.

Scottish Building Problems

It is now 10 years since the Scottish Laboratory at Thortonhall was opened to link the Station with the Scottish building industry. Among many changes during the decade is the adoption throughout Britain of new materials and methods of construction. These are replacing the traditional building methods evolved to withstand Scottish weather conditions. In many cases the change has caused problems of rain penetration, condensation, and lack of thermal insulation. An essential part of the Laboratory's research programme is thus the study of climate, its variations, and its effect on building materials in current use.



Recent view of the Bradwell Nuclear Power Station now under construction. Scheduled for completion in the latter part of 1961, Bradwell is being built for the C.E.G.B. by the Nuclear Power Plant Co., Ltd., partner company of A.E.I.-John Thompson Nuclear Energy Co., Ltd., in the Nuclear Power Group

*Building Research, 1959. Published for D.S.I.R. by H.M.S.O. Price 7s. 0d., by post 7s. 6d.

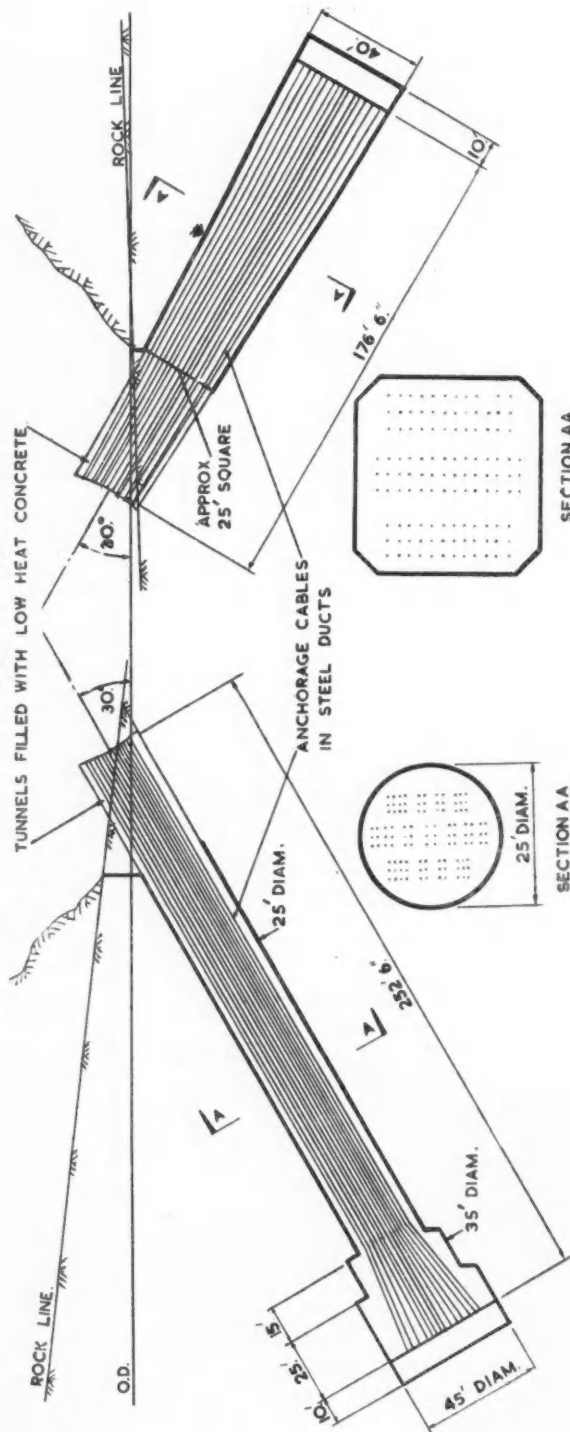


Diagram No. 1
South anchorage tunnel
North anchorage tunnel

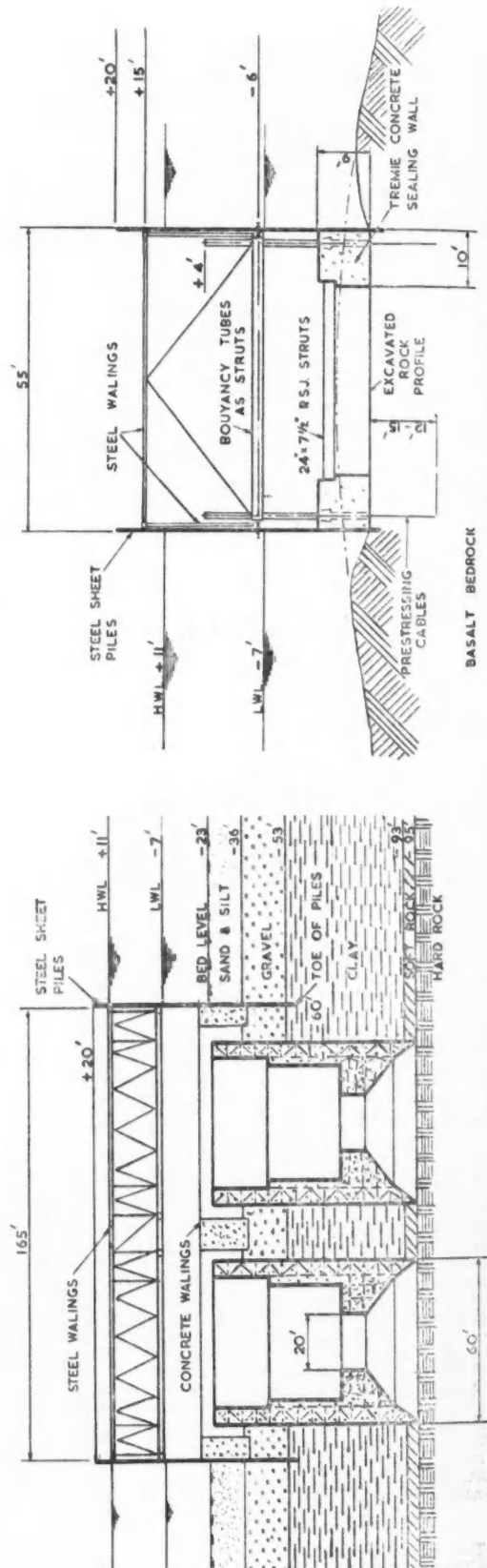


Diagram No. 2. South Pier cofferdam and caissons

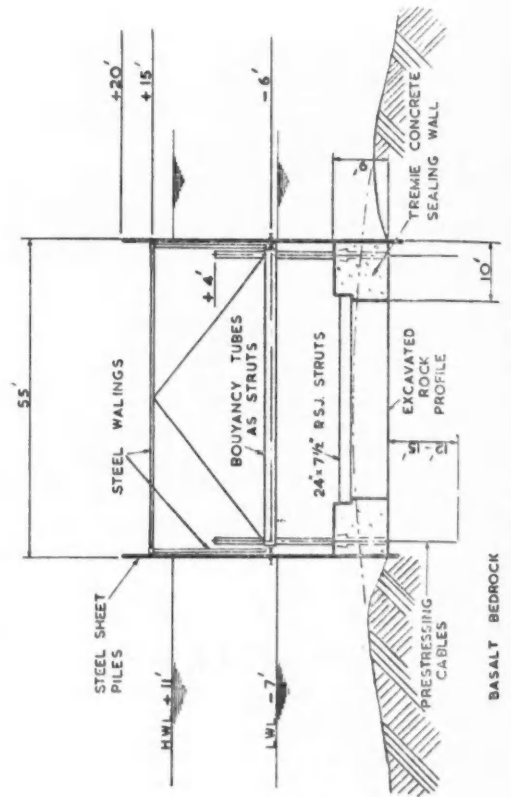


Diagram No. 3. Section of North Pier cofferdam

WORK BEGINS ON FORTH ROAD BRIDGE SUPERSTRUCTURE

Foundations and Anchorages Near Completion



The north shore tower near completion, with the anchorage tunnels in the background

CONTRACT No. 1 on the Forth Road Bridge, which consists of the foundations and anchorages for the main suspension span, is now in its final stages of construction and recently the first steelwork sections of the superstructure were placed in position.

Over the next few months, transport, metallisation and erection of the main tower sections will proceed and by the end of this year a significant part of the tower steelwork will be completed.

Work on the first phase, for which the contractors are John Howard and Co., Ltd., is approximately one month ahead of schedule. The north shore tower is now complete and the south shore tower is 75 per cent. complete. These towers are cellular structures of reinforced concrete which will be prestressed to the underlying rock. They form the shore ends of the suspension bridge itself, and carry saddles which deflect the main suspension cables from a nearly horizontal direction to an

angle of 20 degrees to the horizontal.

In the anchorage tunnels on the south bank, all the concrete has been placed around the steel duct tubes, but insertion of the anchorage cables has not yet started, while in the north-side tunnels approximately 90 per cent. of the concrete has been placed.

Cable Anchorages

The cable anchorages consist of twin tunnels at 80ft. centres, driven at a slope of 30 degrees to the horizontal into solid rock, the cross section of the tunnels increasing with depth. The shape and dimensions of the tunnels are shown on the accompanying diagram (1).

On the south side the rock consists of shales with bands of sandstone. Here the tunnels are circular in cross-section since it was found necessary to provide a continuous steel plate lining to the upper half of the section as the shale weathers rapidly on exposure. Each tunnel is filled with

low heat concrete and contains 114 steel ducts of 4in. internal diameter.

Into each duct is inserted an anchorage cable having a breaking stress in excess of 380 tons. Six anchorage cables retain a rectangular steel slab at the mouth of the tunnels to which is attached four high tensile bolts which carry the strand shoes of the main suspension cables. The anchorage cables are pre-tensioned to a load in excess of the maximum working load before the ducts are filled with cement grout.

On the north side the tunnel cross-section is rectangular as the rock is intruded basalt, and roof support by roof bolting has proved adequate.

Main Piers

In both main piers satisfactory rock strata have been reached and the concrete pier footings have been completed. On the south side sandstone rock at -95 was reached by sinking caissons in free air. Advantage was taken of a 50ft. layer of dense boulder clay overlying the rock. A cofferdam was driven into the clay and de-watered. In order to obtain two large unobstructed areas in the cofferdam, in which to build the caissons, it was made in the shape of a figure eight using circular walings.

The two upper walings were made as a steel unit and floated into position. The lower waling is formed of concrete which was placed under water after the river bed had been excavated for 13ft. This is shown on the diagram (2).

Inside the cofferdam two circular reinforced concrete caissons were built at -36 and sunk 59ft. by excavating gravel and boulder clay. Water was easily controlled by three 6in. pumps. These caissons are now complete and construction of the pier shaft is complete to the underside of the steelwork.

On the north side a submerged reef of basalt formed the foundation and here the cofferdam was formed of sheet piling sealed to the rock by a wall of concrete 10ft. thick by 9ft. high placed under water. This wall was anchored to the rock by 44 cables grouted into the rock and prestressed to 50 tons each. After prestressing the cofferdam was pumped out and the hearting placed in the dry. (See diagram (3)).

The pier base and pier shaft are now complete to the underside of the tower steelwork. By means of a transferred aggregate technique the whole of the exposed faces of the pier shafts are covered

(Concluded on next page)



Lowering of first base section onto holding down bolts at the North Pier

HIGHWAY DEVELOPMENTS IN THE U.S.A.

London Meeting on Pavings Group's Visit

ARRANGEMENTS have been made for a meeting at which illustrated reports are to be presented on the extensive 14-day visit to the U.S.A. organised in April of this year by the Pavings Development Group (Concrete and Soil-Cement) to study roads, bridges, traffic conditions and parking garages.

The meeting at which members of the party will report on the U.S.A. tour is to be held at the Friends' House, Euston Road, London, N.W.1, on Thursday, September 8, from 10 a.m. to 5 p.m., with Mr. James Drake, B.Sc., M.I.C.E., M.I.Mun.E., F.Inst.H.E., county surveyor and bridgmaster of Lancashire and president of the Institution in the chair.

The visit covered 15,000 miles in all, and included major recent road-and-bridge works in New York City, Chicago, San Francisco and Los Angeles, together with the inspection of parking garages in these cities and of freeways under construction.

The following reports will be presented:

- 10.00 "Urban and Inter-Urban Motorways," Mr. R. F. Earley, B.Sc., A.M.I.C.E., consulting engineer, and Mr. W. R. Thomson, M.I.C.E., county surveyor, Worcestershire.
- 10.45 Coffee.
- 11.15 "Bridges and Elevated Roads," Mr. A. D. Holland, T.D., B.Sc.(Eng.), A.M.I.C.E., bridges branch, Ministry of Transport.
- 12.00 "Handling the Traffic," Dr. W. Fisher Cassie, M.S., F.R.S.E., M.I.C.E., professor of civil engineering, University of Durham.
- 12.45 Luncheon Break.
- 2.15 "Construction—the Contractor's Viewpoint," Mr. O. Davies, M.Inst.H.E., director, Leonard Fairclough, Ltd.
- 3.00 "Garages and other Parking Facilities," Mr. F. M. Bowen, M.I.C.E., partner, Scott and Wilson, Kirkpatrick and Partners.
- 3.45 Tea.

4.15 "Financing and Organisation," Mr. H. S. Killick, M.C., T.D., M.A., managing director, G.K.N. Reinforcements, Ltd., and director, Guest Keen and Nettlefolds (South Wales), Ltd.

5.00 (approx.) Meeting ends.

Admission will be by ticket only—obtainable free of charge from The Secretary, The Institution of Highway Engineers, 47 Victoria Street, Westminster, London, S.W.1.

[Reports on this tour by our own representative who accompanied the party appeared in our issues of May 19, May 26 and June 2—EDITOR.]

CARDIFF TEACHER TRAINING COLLEGE

Tenders Invited for £550,000 Scheme

In advertisements appearing on page 755 of this issue, Cardiff City Council are inviting tenders for the erection of a new teacher training college for 400 students, with residential accommodation for 300 students and staff. The total value of the works is approximately £550,000.

The college is of one-, two- and three-storey construction, 71,367 sq. ft. floor area, and the residential accommodation is of two- and three-storey construction, 66,467 sq. ft. floor area.

EVIDENCE TO WATER CHARGES SUB-COMMITTEE

The Institution of Municipal Engineers have been formally invited by the Ministry of Housing and Local Government to submit a memorandum of evidence to the Central Advisory Water Committee's sub-committee on water charges. The Council of the Institution have accordingly appointed a sub-committee to deal with this matter.

BOOK REVIEWS

Reinforced Concrete Chimneys, by C. Percy Taylor and Leslie Turner. Second Edition revised by Leslie Turner. Publishers, Concrete Publications, Ltd. Price 12s.; by post 12s. 9d.

Since the publication of the first edition of this book, one of the authors, Mr. C. P. Taylor, has died and the present edition has been revised by Mr. Leslie Turner to include up-to-date methods of design and examples of more recent chimneys. An improved method of analysing annular sections subjected to bending and direct thrust replaces the more complex method given in the previous edition. Some of the design data, such as the combination of thermal and structural stresses, are also applicable to the design of structures other than chimneys, namely reinforced concrete tanks and biological shields. A new chapter is included and deals with the deflection and sway of tall chimneys due to the effects of wind and is a valuable contribution to a subject on which there is very little literature. As in the previous edition, an example of the complete design of a chimney is given.

Elementary Engineering Mechanics, by Eugene George Key. Publishers in U.K.: Chapman and Hall, 37 Essex Street, London, W.C.2. Price 44s. 457 pp.

This American volume is basically a full description of the elements of statics and dynamics and their application to engineering problems, and it emphasises many purely mechanical applications as well as the civil and structural problems found in other texts.

The book is divided into two parts, dealing with stationary and moving bodies, and the fundamental concepts of these are stressed to show the easy solving of any mechanics problem through correct analysis.

A basic knowledge of plane geometry and algebra is necessary to understand the material, providing that the trigonometric aspect can be learnt from the explanations given in the book. For this purpose an appendix has been provided comprising several pages of natural trigonometric functions. The volume also includes a useful index.

KENSAL RISE FLATS

A visit of representatives from contractors and other interested organisations to the site of the Kensal New Town Development, where the first two high blocks of flats are under construction for Kensington B.C., was recently arranged by the Modular Society. The multi-storey blocks are being erected to a 4in. module, and are expected to be completed about the end of this year. Sir William Halford and Partners are the architects; R. Travers Morgan and Partners, the consulting engineers; and the contractors are Unit Construction Co., Ltd.



(Concluded from previous page)

with a mosaic of 1½ in. crushed pink Corennie granite.

The first steelwork recently positioned was the base sections of the north main tower—two outer sections each weighing 17½ tons and an inner section weighing 15 tons.

All but 2ft. 7in. of the steel at the north and south piers will be bedded in concrete and each of the main towers will be built up to a height of 505ft. above sea level. The legs of the towers are each made up of 33 welded boxes of high-tensile steel, each about 47ft. 6in. long, up to 12ft. wide and 5ft. deep, and having a maximum weight of 34½ tons.

After cleaning by means of grit blasting, followed by metallisation and painting, in workshops fitted out with new machines specially designed for the purpose, the sections will be lifted by climbing crane and bolted together to form the towers. In all, 132 sections will be used.

When complete, the Forth Road Bridge will be the largest of its kind in Europe. Mott, Hay and Anderson, in conjunction with Freeman, Fox and Partners are the consulting engineers and the late Sir Giles Gilbert Scott was the architect. The complete bridge superstructure is being built by the A.C.D. Bridge Company, a consortium formed by Sir William Arrol and Co., Ltd., Cleveland Bridge and Engineering Co., Ltd., and Dorman Long (Bridge and Engineering), Ltd.

PREFABRICATED TIMBER BEAMS OF 51FT. SPAN IN CHELTENHAM CLUB HOUSE

A CLUB HOUSE covering an area of about 14,000 sq. ft. and built entirely of prefabricated timber has recently been completed at Cheltenham, Glos., for the Dowty Rotol Group of Companies' sports club. All the units for the building, which was planned throughout on a 6ft. grid, were made at the London factory of the contractors, T. Bath and Co., Ltd.

The accommodation includes a sun lounge, a large hall with seating accommodation for 240 and including stage and bar, a separate bar lounge, four 60ft. long skittle alleys and a billiards room. Behind the stage are changing and dressing rooms together with a ladies' cloak-room and toilets. For team games there are three sports changing rooms, each of 507 sq. ft. and a sports store of 380 sq. ft. These adjoin a large toilet room covering 972 sq. ft., equipped with showers, tiled plunge baths, etc.

The main section of the building, which includes the sun lounge and bar lounge and hall are situated in the raised section of the building, which has a Monopitch roof, supported on plywood box beams, giving a clear span of 51ft. These are in turn supported by plywood box columns or vanes at the front elevation. Flanking the centre section, at rear and sides, the remaining area is of flat roof construction with continuous clerestory lighting.

Delivery of the main roof beams created something of a transport problem as these were approximately 52ft. long. Twenty of these beams had to be hoisted into position in the main roof and this was done in a single day with the aid of a mobile crane.

Interior wall claddings and ceilings are plasterboard, with the exception of linings to toilet and shower area which are in blue Colourglaze.

For the front elevation, in conjunction with the Monopitch roof, a sloping front technique has been used with a 6ft. canopy overhang. All exterior wall cladding is in vertical Western Red Cedar weatherboard. The Monopitch roof section is of T. and B. boards with three layers built-up felt roof



Front elevation of the club house

and the flat roof sections are of plywood sheathing, again with a three layer built-up felt roofing with secret gutters.

Main contractors included: foundations, plumbing and decorations—W. J. B. Halls, Ltd., Gloucester; electric lighting and wiring—Lee-Beasley, Ltd., Gloucester; roofing—Birmingham Roofing Co., Ltd.; glazing—Boyce Glass Co., Ltd.; wood block flooring—William Thornton, Ltd., Liverpool.

HYDE PARK CORNER SCHEME

Contractors Report Good Progress

LONDON'S major post-war road project recently reached the three-month mark—with police and contractors both reporting that little disruption has been caused to traffic.

This optimistic report comes from the Cubitts Fitzpatrick Shand consortium working on the L.C.C.'s £5½m. Hyde Park Corner-Marble Arch improvement scheme.

Already more than 200 men are working on the project and the labour force will reach 300 in the near future. Since work started on May 9, more than a mile of sewers has been laid at Hyde Park Corner, Marble Arch, in Park Lane, Green Park and inside Hyde Park, about 250yd. has been completed of the new 40ft. wide ring road which will run inside Hyde Park; work is "well under way" on four of the 15 pedestrian subways which will be part of the scheme—at Marble Arch, near Green Street, near Apsley House and by Green Park; and a "substantial amount" of work has been done on the scheme to build a 1,000ft. long twin two-lane underpass at Hyde Park Corner.

Mr. D. G. Jarvis, project manager for the Cubitts Fitzpatrick Shand consortium said that pedestrian subways were being prefabricated on the site. When they had been put in place, work would begin on the approaches to them.

Underpass Progress

Explaining the preparatory work on the underpass, Mr. Jarvis said his consortium were now using the Italian ICOS-Veder process of excavation. Under this method, never previously used in Britain, reinforced concrete retaining walls were constructed before the trench for the underpass itself was dug. At Hyde Park Corner this involved the excavation of two trenches 20in. wide to the depth of the retaining wall, 50ft. deep.

Advantages claimed for this method were that it was faster, quieter and more efficient than the traditional use of sheet steel piles or wooden braces.

Mr. Jarvis added that the four Italian teams engaged on the work at Hyde Park Corner were working well to schedule and it had been possible to begin the first excavation of the actual underpass within the last two weeks.

START ON ELEPHANT AND CASTLE STAGE II

Three Multi-Storey Blocks Costing £1m.

Work is about to start on the second stage of the Elephant and Castle Redevelopment, which is at Newington Causeway fronting the new road intersection. Three multi-storey blocks of offices are to be built at a cost of £1,159,251.

Fortpost Investments, Ltd., are the promoters of the scheme and the contractors are Tersons, Ltd., 4 Dollis Park, London, N.3. Completion is scheduled for early 1962.

One of the blocks will be 17 storeys high, excluding the basement, lower ground and ground floors, roof, tank rooms and lift motor rooms, and will be 200ft. high from ground floor to tank rooms. The other two blocks which adjoin will be eight-storey and about 97ft. high. Shops and banks will be provided at ground floor level.

Construction will comprise a reinforced concrete frame with hollow pot and solid concrete floors. One of the features will be projecting floors at various levels forming imitation balconies. The entire scheme is clad in window walling with faced columns and beams.

Erno Goldfinger, D.P.L.G., L.R.I.B.A., is the architect, and the consulting engineers are Ove Arup and Partners. The quantity surveyors are Davis, Belfield and Everest.



The hall and bar

Men and Movements

MR. G. H. A. HUGHES, O.B.E., for 16 years Director of the London Master Builders Association, retires on August 31. Many tributes to his outstanding service have already been paid, not only by builders but by everyone connected with the industry with whom Mr. Hughes has come into contact. The L.M.B.A. are proposing to honour Mr. Hughes by inviting him to be their guest at a cocktail party in Carpenters Hall on November 10.



G. H. A. HUGHES

Mr. D. F. Haydon has been appointed general sales manager of Baird and Tatlock (London), Ltd. He joined the company in 1932 and became chief technical sales representative in 1952.

New chairman of the Council of the Institute of Export is **Mr. Douglas E. Graham**, a director of Staveley Coal and Iron Co., Ltd. He was appointed to the council in 1952, and became vice-chairman in 1958.

The Council of the European Free Trade Association have announced that **Mr. Frank E. Figgures** has been appointed secretary-general. Mr. Figgures, an under-secretary of the Treasury, will take up the appointment at Geneva on Sept. 1. He was director of trade and finance at the O.E.E.C. from 1948 to 1951, and after returning to the Treasury was concerned with the negotiations on European trade questions out of which the E.F.T.A. was established this year.

Mr. Wilfrid J. Fry, a director of Solartron Research and Development, Ltd., has been appointed sales director and commercial manager of Solartron-John Brown Automation, Ltd., a new company formed jointly by the Solartron Electronic Group, Ltd., and Constructors John Brown, Ltd., to exploit automated commodity dispensing systems for warehouses.

Mr. Leonard Locker is to be the new deputy chief engineer of the South Western Electricity Board in succession to **Mr. A. G. Milne**, the Board's recently appointed Bristol district manager. Mr. Locker, 44, has held various posts with the Board since 1948, including deputy group engineer, Cornwall; district manager, East Cornwall; and group engineer, Bristol.

Dr. W. A. Macfarlane, managing director of the National Fuel Efficiency Service, has been elected president of the Institute of Fuel. He will be installed on Oct. 11.

The appointment of **Mr. J. H. Taylor** as general factory manager of their Banner Lane tractor plant at Coventry is announced by Massey-Ferguson. He was previously facilities manager at Banner Lane. In 1951 he was appointed general factory manager, Manchester, and in 1953 assistant general factory manager. In 1954 he was promoted to the position of general manufacturing manager, responsible for both the Kilmarnock and Manchester factories.

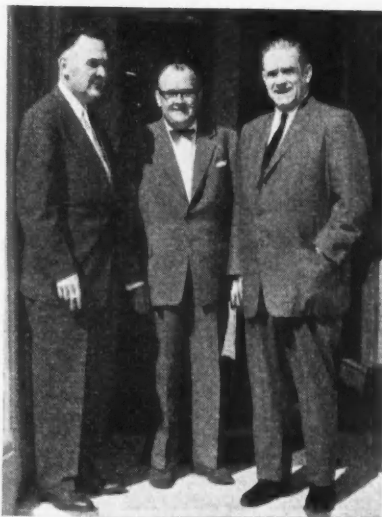
The Minister of Power has appointed **Mr. G. N. Green** as chairman of the North Eastern Electricity Board from Jan. 1, 1961, in succession to **Mr. T. M. Ayres**, who retires on Dec. 31. **Mr. J. D. Nicholson** will succeed Mr. Green as deputy chairman.

Mr. Stanley Miller of Mercantile Credit Co., Ltd., is relinquishing his local directorship for London and the home counties to take an executive appointment at head office. As a consequence of this move, the following changes in the London area have been made: **Mr. Trevor Jones**, at present area manager, is appointed local director. He will be assisted by two area managers; **Mr. H. E. Rawles**, at present London branch manager, and **Mr. H. G. Springbett**, at present New business manager, Mutual Finance, Ltd. **Mr. D. R. Gerrard**, at present branch manager for Kingston, succeeds Mr. Rawles as branch manager, London. **Mr. H. E. Holder**, a representative attached to Kingston, is appointed manager of Kingston branch, and to complete the move in this area, **Mr. G. Callaby**, at present attached to Croydon office, will become sub-manager of a new branch to be opened shortly at Guildford. In the southern area **Mr. W. H. Giles**, at present branch superintendent of Mutual Finance, Ltd., is appointed area manager for this district under **Mr. Arnold Shepherd**.

Mr. P. M. Hollingsworth has been made assistant chief engineer of British Insulated Callender's Cables, Ltd. He was formerly chief engineer of the company's Power and Cables Division.

Directorship of the National Coal Board's central engineering establishment at Bretby, Derbys., has been given to **Mr. R. F. Lansdown**, the Board's chief mechanisation engineer since 1956.

Mr. Ralph Buzard, a vice-president of International Harvester in Chicago, recently paid a brief visit to Great Britain. He is pictured here (right) at Stratford-on-



Avon with **Mr. P. Barrett**, managing director of Saville (Tractors), Ltd., Stratford-on-Avon, and **Mr. D. C. Haney**, managing director of International Harvester in Great Britain.

Mr. E. B. Henning has been appointed sales engineer by Enfield Industrial Engines, Ltd., and will be concerned with the sales of Enfield lightweight air-cooled diesel engines in the industrial field.

Mr. R. Broughton has been appointed chief of the technical sales department of the Pulsometer Engineering Co., Ltd. He was at one time manager of the project engineering department with Sigmund Pumps, Ltd.

Mr. John B. Henderson has joined Fablon, Ltd., as product manager of the building division.

Firth Cleveland Finance, Ltd., have opened a second branch office in Scotland, and **Mr. J. McGlade** has been appointed manager. A further appointment is that of **Mr. R. Ogilvie** as branch manager of the company's Edinburgh office. **Mr. Ian Lennox John** is the company's manager for Scotland.

Mr. Douglas Sanderson, president of the Portland branch of the Amalgamated Union of Building Trade Workers, has been awarded a grant for two months' travel in the United States under the Trade Unionist Travel Grant Scheme of the Ford Foundation and English-Speaking Union.

Mr. S. G. Mundy, M.I.Mech.E., M.I.E.E., managing director of Crypton Equipment, Ltd., has been elected president of the Garage Equipment Association.

Mr. J. Carmichael has left for the West Indies to take charge of a contract secured by the Bristol firm of Arthur Scull and Son, Ltd., for the provision of mechanical services for a new luxury hotel at Runaway Bay, Jamaica. He will stay in Jamaica for more than twelve months.

The chairman and managing director of the General Electric Co., Ltd., **Sir Leslie Gamage**, is relinquishing his post as managing director but will continue as chairman until the end of the year.

MUNICIPAL

At their recent meeting, Bootle B.C. appointed **Mr. T. W. Crookdale** as their new borough engineer and surveyor. Mr. Crookdale at present holds a similar appointment at Crosby.

Mr. R. J. Nichols will succeed **Mr. Gilbert L. Turner** as borough surveyor of Tenterden. Mr. Nichols is at present with Kingsbridge (Devon) R.D.C.

Mr. D. C. Powell, deputy surveyor to Chepstow (Mon.) R.D.C., has been appointed surveyor to Charlton Kings (Glos.) U.D.C. **Mr. William L. Booy**, the previous surveyor, is leaving to become borough surveyor of Bridgnorth.

Mr. H. South has resigned as water engineer and manager to Bridlington B.C. to take up the post of water engineer at Scarborough.

The city surveyor at Manchester, **Mr. R. Nicholas**, has been elected president of the Town Planning Institute for 1960-61, and will take office in November.

Surrey C.C. have been recommended to appoint **Mr. A. F. Smith**, assistant county engineer, as deputy county engineer in succession to **Mr. G. F. Waters**, who is retiring next November.

After 34 years as borough surveyor at Boston, **Mr. D. G. Cockrill** has retired. He has been succeeded by the deputy borough surveyor, **Mr. C. R. Theobald**.

Mr. Maurice J. Hellier, county planning officer to Derbyshire C.C. since 1948, and a former president of the Town Planning Institute, has retired. He is being succeeded by the deputy county planning officer, **Mr. Arthur Latham**.

Taking up a post with a Wolverhampton water undertaking is **Mr. William C. Johnson**, engineer and manager to Chesterfield, Bolsover and Clowne Water Board. He will be succeeded by the deputy engineer, **Mr. C. H. Crombie**.

The new county architect in Hampshire, to take up his appointment in December, will be **Mr. Benson Ansell**.

Mr. Richard J. Lillcrap, at present deputy borough water engineer at Swansea, has been appointed water engineer and manager by the B.C. in succession to **Mr. T. Price**, who is retiring in October.

RESEARCH FOR INDUSTRY INCREASING

Work on Creep and Fatigue

THE grant-aided research associations—which last year reached a total number of 50 for the first time—are keeping pace with the increasing research effort in industry generally.

The total income from industry and government rose from £5.1m. in 1955 to £7.3m. in 1959, of which the Department of Scientific and Industrial Research contributed £1.7m. last year.

"We expect it to go on rising," states the Industrial Grants Committee of the Council for Scientific and Industrial Research, in its report "Research for Industry 1959."*

All types of activity—basic, applied and sponsored research, and development, information and advice—are benefiting from this expansion, although each Research Association is designing its own pattern of advance to meet the changing needs of its industry.

Creep and Fatigue Research

The Committee draws attention to three important areas of research—creep, fatigue of metals and shipbuilding—in which D.S.I.R. is co-operating with one or more of the research associations. "All three are areas of particular interest to us," reports the Committee, "and we have aided the pooling of resources in all ways at our disposal."

Summarising the work now being carried out on creep research and by the Committee on Fatigue Research, the report states:

Creep Research

Creep is a slow continuous deformation which occurs in materials subjected to stress for long periods at high temperatures. It has been studied by the National Physical Laboratory and the National Engineering Laboratory, and by private firms, other Government departments, public

* "Research for Industry 1959." Published for D.S.I.R. by H.M.S.O. price 8s. (\$1.44 U.S.A.); by post 8s. 7d.

boards and research associations, in particular the Electrical Research Association. But with so many uses of steel and other materials calling for higher temperatures, and with competition from abroad, the scale of research needs to be greatly increased.

Much of the information needed for design can only be derived from repeated tests of each material, often in several different forms, over very long periods. The majority of these tests have to be made under simple stress conditions very different from those met in practice. Basic research is being pursued to permit the correlation of results of simple tests and service behaviour.

Accordingly, a new building is being erected at the National Engineering Laboratory, for completion in 1961, which will enable the basic researches to be expanded in the hope of gaining a better understanding of the creep process and of those properties relevant to the successful use of engineering materials at elevated temperatures. Special testing techniques and equipment will also be developed.

In the meantime the Laboratory has opened a Creep Information Centre, in response to requests from manufacturers and users of materials, so that industrial designers can more conveniently obtain creep data, which are at present not readily available in a co-ordinated form. The main object of this Centre is to collect and correlate all the data on British conventional high-temperature materials and to issue them in an agreed form so far as considerations of commercial security allow. All interested organisations have been invited to send in experimental data. The scheme will later be extended to include data on fatigue and other mechanical properties and also on test procedure and testing machines; data on foreign materials may also be included.

While the National Engineering Laboratory expands its basic research and builds up its information centre, the Electrical

Research Association is planning an extended programme of tests designed to provide new information on those ranges of steels and temperatures which are of particular relevance to modern steam-raising plant and turbines—especially for the generation of electric power. It is erecting and equipping a new laboratory for this purpose at a cost of over £150,000, to which the Department will contribute about £50,000 as a special capital grant. The proposal is to establish sets of specific requirements and to choose ranges of steels likely to satisfy each set. Then industry will select one or more steels in each range for testing and the Association will determine their creep and rupture properties. Finally the National Physical Laboratory will analyse and evaluate the relevant metallurgical data, which will eventually be made available to the Creep Information Centre of the National Engineering Laboratory. Several steel-making firms are carrying out co-operative creep tests and this work is organised through a committee of the British Iron and Steel Research Association.

The four research organisations will collaborate closely at all stages so as to ensure the most efficient use of resources and the compatibility of programmes. The Electrical Research Association's programme can be readily co-ordinated with any later research planned to cover a wider range of steels.

Fatigue Research

Fatigue of metals in conditions of repeated stress is a subject with wide and growing ramifications in industry. Following an approach from the Institution of Civil Engineers, the Department has set up a committee under the chairmanship of Sir Alfred Puglsey, O.B.E., F.R.S., professor of civil engineering at the University of Bristol, to consider what research needs to be done into the fatigue of engineering structures made of metal, to survey existing research facilities and to make recommendations to the Department. The nine members include representatives of the National Engineering Laboratory, the National Physical Laboratory and the British Welding Research Association, and their work is involving these organisations in very close collaboration.

The Committee is examining fatigue failure in various classes of structure, notably bridges, cranes and gantries, heavy vehicles, ships' structures, marine engines and pressure vessels, with particular reference to the use of low-alloy high-tensile steels in welded constructions. Although it is drawing on experience relating to aircraft and to reinforced concrete, it is not dealing with these subjects in detail because of the need to keep its work within reasonable bounds. The Committee expects to submit its report in 1960.

"Research for Industry" also contains brief descriptions of the work of each of the research associations and a fuller record of achievements of the 12 associations whose grants came up for renewal during 1959.

OXFORD CIRCUS STATION-OF-THE-FUTURE

A large-scale model of the Oxford Circus tube station-of-the-future is the highlight of a London Transport exhibition now being held at Charing Cross Underground station to mark the Diamond Jubilee of the Central Line.

The model shows the elaborate plans which London Transport have for dealing with this key West End station when it can be rebuilt. The main feature is a large ticket hall under the Circus itself with a pavement entrance at each of the four corners. Tunnels and interchange platforms for London's new tube, the Victoria Line, for which financial approval has not yet been given, are also included in the model.



This strikingly designed boiler house for British Oil and Cake Mills, Ltd., at Selby, near Hull, dominates a 50-acre factory site between the main road and the main Edinburgh-King's Cross railway line. The four boilers are specially equipped to burn very low grade coal. Fuel is supplied automatically underground into hoppers and the boilers are fitted with continuous ash extractors and a comprehensive system of cleaning. The building contractors were F. Shepherd and Son, Ltd., York.

Talking of Safety

by
"DRAGEE"

HAVING completed our investigation into the unfortunate accident to Denis Jones with the machine saw, I went with Dan Rogers, the foreman joiner, to his hut, where we had a short discussion about the woodwork-machinery regulations.

"I see that you have a copy of the regulations posted up near the saw bench," I said. "That's a good point—but I do wish that people would take a little trouble to read them."

"Trouble is, the people who do read the regulations often don't bother to do anything about them," said Dan. "I ought to know 'em backwards by now, but I'm blown if I can remember what they say about shielding the operator from glare."

"The only thing the regulations say about natural light is that it must be adequate. If you use artificial light, it must still be adequate, of course, and it must also be positioned or shaded so as to prevent glare."

"There's one thing I don't quite understand about this legal business," said Dan. "I was looking at an extract from the Factories Acts the other day—you know, the bit dealing with the fencing of machinery. It says there that dangerous parts of any machinery must be guarded, so how do we manage about circular saws?"

"Well, of course, you do fit guards to saws. But I know what you're getting at. In the ordinary way, dangerous parts must be completely guarded, and this, taken literally, would make it impossible to use the machine. Fortunately, regulations can be made to cover special cases, and the use of woodworking machinery is one of them. Some time ago, a High Court ruling

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.—EDITOR.

was made concerning this matter, and the practical effect of the ruling is that the regulations may supersede the Factories Acts in certain respects. So you see, despite what some people may think, the Law does take a common-sense view of things occasionally—as in this instance where it has provided measures to avoid an impossible situation."

"Does that mean we can't be blamed when a man hurts himself, if we have all the regulation guards fitted?"

"Not quite. It means that we've discharged our statutory duties so far as the actual guarding is concerned—provided that the guards are correctly fitted and adjusted, of course—but you still have a few rules to observe."

"I thought there was a catch in it!" said Dan.

"There's no catch about it. The precautions which the regulations require are the absolute minimum—don't forget that the circular saws are particularly lethal articles—and, as a safety-minded organisation, we expect an even higher standard of care. You've just seen what can happen to a skilled and careful craftsman: he fell foul of a hazard which isn't even mentioned in the regulations."

"One very important regulation limits the minimum temperature of the working place to 50 degrees. The regulation actually refers to the temperature of the room where the machine is used, but obviously an operator working out-of-doors cannot use the machine safely when he is very cold, so shelter and heating is essential during cold weather."

"I've always been careful about keeping the floor clean and dry," said Dan. "I know there's a regulation about that because a factory inspector once pulled me up for having just a few chips lying near the bench."

"That's very likely to happen. The regulations say that the floor around any woodworking machine—not just a circular

saw—must be kept level and in good condition, free from loose material, and if must not be allowed to become slippery. Faulty conditions round the saw have produced many accidents, some of them very serious. Also, as you know, it's important for the operator to be able to stop his machine quickly in an emergency, and that is why the first of the woodworking machinery regulations says that an efficient stopping and starting appliance must be fitted, and that the controls must be convenient for the person in charge of the machine."

"It's also compulsory to have a push-stick handy, isn't it?"

"Yes—but the regulation says it must be a *suitable* push-stick. A weak or badly shaped push-stick is often worse than none at all. I have even seen an experienced joiner using an open folding rule for that purpose, and that's only one of many dangerous makeshifts!"

"I know that woodworking machines can only be used by trained persons, but what is the position when a beginner comes along?"

"Ah—the regulations have allowed for that, too. A trainee may use a machine provided that he's under the supervision of somebody who has a thorough knowledge of it—and the supervision must be adequate. The trainee must also be shown all the dangers, as well as the precautions that have to be taken."

"Well that seems to clear that point. I see I'm a bit rusty on the regulations, so it might be a good idea if I took another look at the placard myself."

WORK IN COMPRESSED AIR

The Work in Compressed Air (Amendment) Regulations, 1960, which were made on July 26 by the Minister of Labour, came into operation on August 14.

These regulations extend the scope of the Work in Compressed Air Special Regulations, 1958, so as to make those regulations apply not only to work in compressed air carried out in works of engineering construction, but also to work in compressed air carried out in any factory and in any other premises or place to which the Factories Act, 1937, applies.

FOR THE DIARY

Aug. 26

North Western District of the Institution of Municipal Engineers. Visit of Associate Members and Students Section to Ribblesdale Cement Works, Clitheroe.

Aug. 30

Royal Institution of Chartered Surveyors. Annual conference at the University College of North Wales, Bangor. Aug. 30-Sept. 3.

Sept. 1

The Contractors' Mechanical Plant Engineers—London Branch. Meeting at Park Royal Hotel, Park Royal, 7.30 p.m. Film show by Atlas Copco.

Sept. 8

Meeting of the Southern Counties branch of the Contractors Mechanical Plant Engineers, The Surrey Tavern, Morden Road, Morden, 7.30 p.m. Film show.

Sept. 11

International Trade Fair at Brno, Czechoslovakia. Sept. 11-25.

Sept. 13

Eightth annual residential study course arranged by the South-Western District of the Institution of Municipal Engineers. Dillington House, Ilminster, Somerset. Sept. 13-15.

Sept. 14

Meeting of the Glasgow branch of the Contractors' Mechanical Plant Engineers, Mores' Hotel, India Street, Glasgow. 7.15 p.m. Film show.

Meeting of the Western Branch of the Institution of Plant Engineers, Royal

Clarence Hotel, Exeter. 7 p.m. Film and talk on the construction of the M.1 Motorway.

Sept. 16

Meeting of the Birmingham branch of the Institution of Plant Engineers, Imperial Hotel, Birmingham. 7.30 p.m. Mobile Plant Discussion Group.

Annual meeting of the North Western District of the Institution of Municipal Engineers at the Town Hall, Rochdale, 11.30 a.m.

Sept. 21

Conference of the British Waterworks Association, Edinburgh, Sept. 21-23.

Factory Equipment Exhibition, Belle Vue, Manchester. Sept. 21-Oct. 1.

Sept. 23

Commercial Motor Show, Earl's Court, London, Sept. 23-Oct. 1.

Sept. 30

Meeting of the Metropolitan and Southern branch of the Institute of Sewage Purification, Friends House, Euston Road, London, N.W.1. 6.30 p.m. Discussion—New and Pending Legislation—introduced by J. L. Spiller.

Oct. 3

Conference of the Institute of Quarrying, North British Hotel, Edinburgh, Oct. 3-6.

Oct. 6

Convention on Parking arranged by the Institution of Municipal Engineers at Central Hall, London, 10 a.m.

Oct. 11

Building Trades Exhibition, City Hall, Deansgate, Manchester, Oct. 11-22.

Annual dinner of the Contractors' Plant Association, Dorchester Hotel, London. 7.30 p.m.

Oct. 13

Twenty-first national conference of the Council for the Preservation of Rural England, Pavilion, Weymouth. Oct. 13-15.

Oct. 14

Annual dinner and dance of the Institute of Quantity Surveyors at the Trocadero Restaurant, London, W.1.

Oct. 18

Effluent and Water Treatment Exhibition and Convention, Seymour Hall, London Oct. 18-21.

Oct. 19

Annual general meeting of the Institute of Quantity Surveyors at 6.30 p.m.

Oct. 21

Annual dinner of the Society of Engineers at the House of Commons.

Oct. 27

Meeting of the Metropolitan and Southern branch of the Institute of Sewage Purification, Friends House, Euston Road, London, N.W.1. 6.30 p.m. Paper "The Biological Treatment of Chemical Wastes," by I. S. Wilson and Miss E. Harrison.

Nov. 1

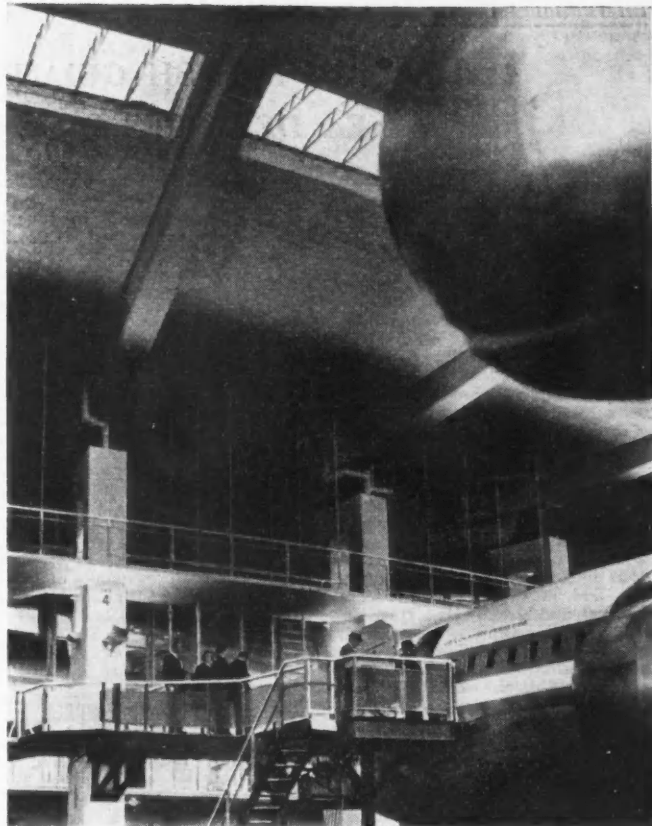
Annual dinner of the British Road Tar Association, Grosvenor House, London, W.1. 7.30 p.m.

Nov. 14

Public Works and Municipal Services Congress and Exhibition, Olympia, London. Nov. 14-19.

International Construction

NEW YORK AIR TERMINAL HAS FOUR-ACRE CANTILEVERED ROOF



Passengers embark directly from the terminal

MANY unusual design features are incorporated in the major air terminal recently opened at New York International Airport for Pan American World Airways.

Generally, the building is of elliptical shape beneath a cantilevered, concave roof, four acres in area, which can cover as many as six large planes, thus allowing planes, passengers and ground-handling activities to be in close proximity to each other while being protected from the weather.

Roof Design

The overhanging roof is cable-suspended 114ft. out from the three-storey structure,

the upper two floors of which are glass-walled. With an outer edge 50ft. above the ground, the roof has a 528ft. major axis and a 422ft. minor axis. It rests on two clusters of vertical members. The outer oval, 228ft. shorter than the roof, contains 32 reinforced concrete piers.

The inner hub, a hexagon at the core of the structure, consists of six tension columns, weighted by a 3,500,000lb concrete anchor buried 27ft. underground, beneath 10,000,000lb. of sand.

These inner tension columns do not support the roof, their function being to hold it down. Bolted to these columns are the 32 cantilevered prestressed steel girders which frame the roof. Each girder is held

in place by six 2½in. cables secured to the outer end of the girder, passed over a 15ft. high post at the middle of the girder, and tied back to the inner end of the girder a few feet before its connection to one of the tension columns. Nearly six miles of cable were used in this operation.

The entire underside of the roof is covered with acoustical cellular glass to give sound absorption properties.

Aerodynamic tests for flutter and vortex were carried out on the structure and these studies showed that the wind velocity which might cause flutter is well above the design velocity of 150 m.p.h.

To prevent rainwater collection within

(Concluded on next page)



General view of the new air terminal

International Construction

£330,000 FOR BRITISH GUIANA SEA DEFENCES

A GRANT of £330,000 was made under Colonial Development and Welfare Acts last month towards the cost of sea defence works in British Guiana.

It was one of 91 grants and loans approved during June which made £4,754,720 available for schemes to benefit Britain's overseas territories. Among the grants were 19 for research, totalling £64,258.

The 1960 programme of sea defence works in British Guiana is a continuation of a comprehensive plan begun in 1954 for better sea defences to protect the coastal belt of agricultural lands. Grants totalling £420,429 were made towards the cost of this work between 1957 and 1959. More than £30,000 of the present grant will be spent on a new hydrographic survey launch which will be used for investigations into Georgetown Harbour Bar siltation and into erosion and accretion to the east and west of the Demerara River estuary. This work will be carried out by overseas staff financed with assistance from the United Nations Special Fund.

British Guiana received a total of £477,942 in six grants last month, the other five consisting of £83,333 for primary school buildings and equipment, £33,000 for aerial photography, £23,989 for a malaria eradication programme, £7,500 for post-primary education in the Home Economics and Handicrafts Departments, and £120 for the identification of trawl specimens collected by the Research Vessel "Cape St. Mary" off British

Guiana and the preparation of a scientific report.

Grants made in June for educational facilities totalled £1,624,845. They included £512,560 for the development of African education in Northern Rhodesia, two grants totalling £344,750 for extensions to two halls of residence at the University College of Rhodesia and Nyasaland, £200,000 for the construction and extension of primary and intermediate schools in Aden, and £257,957 for the development of African education in Nyasaland.

Transport Developments

Grants and loans for road and railway developments totalled £967,472, including grants of: £245,000 for road improvement work in North Borneo; £142,000 for the development of feeder roads in the Southern Cameroons; £126,130 for major road improvements in Malta, and £123,098 for the continuation of the construction of the eastern coast road from Rosalie to La Plaine in Dominica. A grant of £189,375 has been made to Sierra Leone for the purchase of diesel locomotives and carriages.

Among the grants totalling £491,175 for medical and health services and medical research was one of £145,946 for the construction and equipping of an outpatients and operating theatre block for the Colonial War Memorial Hospital, Suva. The hospital is the specialist centre for Fiji, and is the teaching hospital for 120 students from the Central Medical and Central Nursing Schools.

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the concave shape of the roof, downspouts were constructed into the 32 supporting piers.

Terminal Building

The terminal building itself has an area of 50,000 sq. ft. devoted to the comfort of passengers, and a further 50,000 sq. ft. for administration purposes.

Passengers approach by car or taxi along a six-lane roadway that curves under the roof overhang to the upper level entrance,

behind a 200ft. by 24ft. high glass screen, decorated with large bronze statues.

Theatre-type lighting is used to assist passengers in boarding their planes. As flight time approaches, the lights of the appropriate lounge area dim, and those of the departure area become brighter. The passenger then walks along a short adjustable walkway into the plane, without having to climb a stair.

An observation walkway facing the International Arrivals Building allows visitors a view of departing and arriving planes.



Interior of the lounge

COSTAIN NYASALAND CONTRACT

RICHARD COSTAIN (Africa) have been awarded a £410,000 contract in connection with the Walker's Ferry Scheme, Nyasaland, the contract being carried out for the Mudi River Water Board. The consulting engineers are Scott and Wilson, Kirkpatrick and Partners.

The contract entails the laying of 30 miles of high pressure main varying from 24in. to 12in. diameter, including several river, road and railway crossings. It is located between the Shire River and Blantyre/Limbe, an area which is desperately in need of the water which this main will supply.

Scheduled time for completion of the contract is two years.

PUBLIC WORKS DEVELOPMENT IN THE DOMINICAN REPUBLIC

A total of \$636,400 has been spent on developments including offices, a church, roads and irrigation systems for the new township of Padre las Casas in the Dominican Republic. The canal system which is eventually to cost \$1m., will irrigate 8,000 acres in surrounding areas. The firm of Luis M. Bonnet are engaged in studies for the construction of an aqueduct to satisfy the increased demands of the area.

U.K. ARCHITECTS FOR SWISS SPORTS CENTRE

A British firm of architects, D. J. McClelland and Partners, Hereford, have been appointed consultant architects for a winter sports centre proposed at Lotschental, Switzerland.

A luxury restaurant with bar, a coffee shop with bar, and a snack counter are placed at central locations, and a nursery is also provided. Passengers' cars are dealt with at the terminal entrance by a parking service which parks the vehicle and returns it when needed.

The terminal's non load-bearing glass walls permit an unobstructed view of the apron and nearby runway. They are 1/2in. thick and are mounted independently of the framework in order to reduce their sound-transmitting qualities.

Air Curtain Entrance

A portal, 89ft. by 10ft., comprising what is believed to be the world's largest air curtain, eliminates congestion and confusion at the terminal entrance.

This wide entrance area, which permits free passage in or out at any point, works by means of blowers concealed in the roof which move 600,000 cu. ft. of air past the entrance every minute.

Although these blowers move the air at a speed of 1,150 ft. a minute, their downdraft is extremely gentle. At floor level, the air is sucked through a grille and into ducts that return it to the blowers.

A special underground air-conditioning system for waiting aircraft pipes cool air from four mechanical equipment rooms in the terminal to covered pits at each plane position and this is carried by a total of 16,000ft. of transite (cement-asbestos) piping 18in. in diameter. It is the first built-in ground aircraft air-conditioning system to be installed at any airport.

Architects and Contractors

The new terminal, which has cost about \$12m., is part of the Port of New York Authority's \$150m. Terminal City development.

It was designed by the architectural firm of Tippetts, Abbott, McCarthy and Stratton, with Ives, Turano and Gardner as associates. The general contractors were Turner Construction Company.

International Construction

ELECTROLYTIC METHOD OF SEWAGE PURIFICATION IN NORWAY

From a Correspondent

AN electrolytic sewage purification method developed by Dr. Ernst Foyn is to be commercially exploited by Elektrokemisk A/S, Oslo. This company has played a pioneering role in the design and development of equipment for the utilisation of electric energy, particularly in the electro-metallurgical field.

The Foyn method for preventing pollution by sewage was developed chiefly to cope with the problems arising in the Oslo-fjord. Receiving sewage from a population of about 500,000, the fjord was in danger of polluting to such an extent that organic life would be destroyed completely. Sludge in the sewage contained bacteria dangerous to health. Of equal importance was the effect of the over-fertilising of the fjord by phosphorus and nitrogen compounds from the sewage. In summer this causes an increased growth of algae, with resultant darkness, lack of photosynthesis and oxygen deficiency in the deeper layers of the water.

The conventional biological sewage treatment can reduce the bacteria but not the fertilising agents. Chemical methods have proved unsatisfactory, being too expensive, although from one point of view the problem is simpler than it appears, because it is not necessary to remove both the phosphorus and nitrogen compounds. If only one can be removed, this is sufficient to control the algae growth.

It is common knowledge that phosphates can be precipitated by the addition of magnesium and ammonium compounds in alkaline solution. As sewage already contains ammonium, the reagents needed are only magnesium and alkali.

Dr. Ernst Foyn of the Institute of Marine Biology in the University of Oslo, who has been in charge of the chemical side of the investigations in the Oslofjord, conceived the idea of producing the reagents by adding sea-water to supply the magnesium and then subjecting the sewage

to electrolysis to provide the necessary alkalinity. During the process an equivalent amount of chlorine is liberated. The method was tested on a laboratory scale, in pilot plants, and now on a semi-commercial scale, with very good results.

Laboratory Results

The laboratory experiments confirmed that the phosphates could be removed to such an extent that the fertilising effect was eliminated. Moreover, the chlorine gas developed during the process could be used for disinfection of the effluent. The phosphate precipitation was accompanied by a precipitation of magnesium hydroxide in the form of flocules with great power of absorbing sludge material. These flocules with the absorbed material were carried as a scum to the surface by hydrogen bubbles which also are produced by the electrolysis. The scum can be removed mechanically.

Subsequent pilot plant tests showed that it was possible to purify one cubic metre per hour by 200-A at 5-V, giving 1-kWh per cubic metre of sewage water and a retention time of less than one hour.

The much reduced retention time compared with the retention time in a biological treatment plant means of course a corresponding reduction in plant volume. An electrolytic plant can therefore more easily be placed within heavily populated areas, in order to reduce the length of sewer mains. Biological plants are normally situated outside heavily populated areas, because of the great amount of space required.

As to the phosphates, removal in a biological plant is normally given to be a maximum of 50 per cent., whilst the electrolytic method is capable of removing the phosphates nearly 100 per cent.

The sludge from an electrolytic plant can be more economically handled, because of the lower water content and the much lower volume. It can be more cheaply transported for dumping or it can

be more effectively exploited as fertiliser, because the phosphate content is five times greater than that of sludge by the biological method.

Commercial Plant

A semi-commercial plant was built by the Oslo authorities on the outskirts of the city in 1958, and has been successfully operated since then. The plant comprises one cell with vertical diaphragms and one cell of the non-diaphragm type. Automatic devices for the control and regulation of the flow of sewage and sea-water make it possible to operate this test plant under a variety of conditions.

The plant has so far produced purified water with an average phosphorus content less than one milligramme per litre. The process removes nitrogen as well, down to a content of less than four milligrammes per litre (0.28 grains per gallon).

These figures are not to be regarded as the final results. Research work is still going on, and improvements now being developed seem likely to make the electrolytic method still more efficient.

£1,000M. ROAD PLAN IN WEST GERMANY

More than £1,000m. is to be spent on road construction in West Germany, under a four-year plan starting next spring. Announcing this recently, the Transport Minister said that at the end of July, Germany had 1,600 miles of twin-carriageway autobahns in use. The average cost of autobahn construction was £3m., a mile. Increases in the cost of surfacing and bridge-building had been counterbalanced by more efficient and cheaper methods of earthmoving.

INDIAN RAILWAYS EXPANSION

A £26m. loan will be made to the Indian Government by the World Bank to finance the final year, ending March, 1961, of a programme to expand and improve the national railway system. Apart from the purchase of rolling stock and other equipment, plans provide for doubling of 1,300 miles of main line track, replacement of 8,000 miles of track, construction of 830 miles of new lines to ore and coal fields, and electrification of 886 miles of main line.

WORK INCREASED ON HOME-GROWN TIMBER RESEARCH

INCREASED research on home-grown timber for the Forestry Commission features among the work of the Forest Products Research Laboratory, D.S.I.R. In fact, it is pointed out in the Laboratory's annual report*, the Commission considers that its research requirements are likely to increase even more during the next few years.

Details of work undertaken during 1959 are given in the report of the director (Dr. F. Y. Henderson, C.B.E.). They include:

Detailed studies on the timber of various quality classes of Sitka spruce trees of saw mill size from several sites ranging from Devon to the south of Scotland. Analyses made so far of the specific gravity (one of the properties indicating quality) of material from four regions in England and Wales show no significant differences among the regions and no evidence of any real

relationship between specific gravity and site quality class as rated by foresters.

About 20 per cent. of the Sitka spruce trees were found to contain cracks of varying depth and length, their direction indicating the existence of spiral grain.

During kiln drying from the green to 8 per cent. moisture content, lin. thick boards twisted to the extent of 1½-5 degrees on a 2ft. length. The tendency to twist varied directly as the shrinkage and as the angle of spirality but inversely as the distance outwards from the pith. Thus, for a given angle of spirality the angle of twist for a unit length of board from a tree of small diameter would tend to be greater than from one of large diameter.

A method, which is described, was devised for reducing such degrade in the material to be dried by inducing mechanically a twist approximately equal and opposite to the inherent twist. By this, a mean angle of twist of 1.4 degrees was obtained on a 9ft. length as compared with one of 5.0 degrees on material dried normally.

In laminated construction the gluing

process does not change the strength properties of individual laminae. Consequently laminated and sawn timber members of the same cross-section are equally strong when they are both of clear material and have the same moisture content. It is only when knots are present that laminating offers the possibility of higher design stresses. Extensive investigations have led to quantitative data on the influence and incidence of knots in home-grown softwoods, as a result of which it has been possible to determine the appropriate working stresses in bending.

Assessment of Machine Finish

Four types of surface defect may occur in planing a softwood—tearing due to irregular grain; raised grain due to the recovery of the spring wood after compression by the cutters; "wooliness" due to incomplete cutting of the surface; and chip bruising. Assessment of the severity of such defects by casual inspection is considered unreliable. The appearance of machining irregularities is most pronounced where the surface of the wood is viewed at right angles and is illuminated by a beam of light at a large angle of incidence. An apparatus has therefore been designed to carry out the inspection of all defects with side lighting.

*Forest Products Research, 1959. Published for D.S.I.R. by H.M.S.O. Price 5s. 6d. (99 cents U.S.A.), by post 5s. 11d.

BEDFORD'S CYCLE TRACKS

Prestressed Concrete Structure Spans Railway

ONE of the major problems facing a busy town like Bedford, with about 25,000 cyclists, is how to keep the cyclists away from the main roads at peak periods.

This is important from the point of view of getting people to and from work as quickly as possible, reducing congestion and avoiding accidents.

In Bedford, this is being solved to a major extent by the use of special cycle tracks. These have been constructed so as to link the residential parts of the town with the industrial areas and in a way that lessens the use of the main roads.

The town's first track, built over the River Great Ouse by Bedford Corporation and Kempston Urban District Council, enables workers to get from their homes in Kempston to an industrial area in the borough of Bedford without making a long and hazardous detour. The track, completed in 1953, cost £4,674.

Another track, just finished at a cost of £9,000, continues this link by providing a way over the railway that divides an important part of the residential district from a further group of factories. It is of prestressed concrete construction having reinforced concrete columns with simply

supported prestressed concrete beams. The approach paths have a hardcore foundation with tarmacadam and cold asphalt surfacing.

Without this track, workers would have to join the busy Elstow Road (Trunk Road A.6), cross a railway bridge and get into the traffic stream on the London/Bedford Road (A.600). They would then have to turn into Ampthill Road at a busy junction and have a long haul over a congested railway bridge before turning right across the Bedford-bound traffic into Britannia Road.

Another track is planned to enable cyclists in the remaining part of the residential district to cross the railway that cuts them off from the recently constructed track.

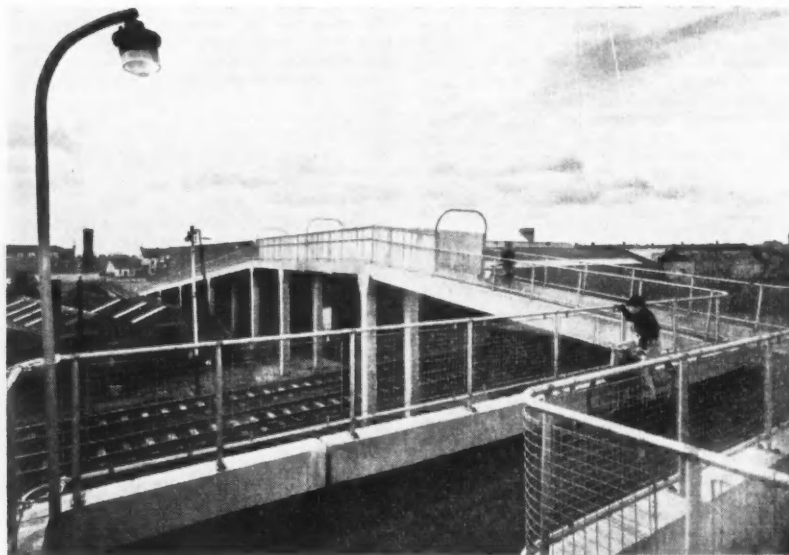
A fourth track links the industrial area with a residential district in the north-eastern sector of the town. Workers cross the river at Newnham and reach the London/Bedford road (A.6 and A.600) with ease. Without the track, it would be necessary for them to negotiate all or part of the town centre, join the main traffic stream, cross the busy town bridge and make a right turn into Cauldwell Street.

Mr. F. Dawkes, Bedford borough engineer, said it is hoped to provide more tracks as part of the scheme to keep the cyclists off the main roads.

"In time," he said, "it should be possible to cycle from any part of the borough to work or play with little need to use a busy road or negotiate a major road junction. Right-hand turns, a hazard for cyclists, would be avoided."

Although the tracks are used, in the main, by people getting to and from work, they are also of value to school children and families out for an evening ride.

One big problem is the name—for though these thoroughfares are called cycle tracks the council has forbidden cyclists to ride over the bridges. Strips of wood have been laid across the width of the bridges to give cyclists who do not dismount a bumpy ride—but these (and the "cyclists dismount" notices) are not always effective. The power-assisted cycle has also brought its problems.



Bedford's latest cycle track over railway

CLEAN AIR

Local Authority Smoke Control Programmes

A COMMAND Paper* giving the proposals of local authorities in the "black" areas, where air pollution is worst, for eliminating smoke from their districts by making orders creating smoke control areas has been presented to Parliament by Mr. Henry Brooke, Minister of Housing and Local Government and Minister for Welsh Affairs.

In a circular issued in January, 1959 to local authorities, the Minister asked each local authority in the black areas to decide what smoke control orders were needed in its area, and to submit a programme showing the local authority's plans for smoke control in each year up to 1963, and the year by which the authority hoped to finish the job. The Command Paper shows these programmes.

The Paper shows that by the end of 1958, some 120,000 premises and 17,000 acres in the black areas were covered by smokeless zones or smoke control orders.

Estimated progress in 1960 (470,000 premises and 111,000 acres) is about double that estimated for 1959. The programmes envisage that something like this rate will be maintained in each year up to 1963. This rate of progress would mean that some 2,250,000 premises (including 2,000,000 houses) and nearly

500,000 acres would by then be smoke controlled. This is almost half way towards the final objectives of those authorities who have submitted programmes.

Rate Falls Short

Information given in the Paper about the rate of progress by local authorities in 1959 shows that this fell a good deal short of what had been planned.

The target dates for the completion of local authority programmes range from 1962 onwards. The County of London, it is estimated, will be largely smoke controlled by 1975.

324 "Black" Areas

A provisional list made by the Ministry shows that 324 local authority areas in England and Wales might be regarded as black areas in whole or in part. A table in the Paper shows the smoke control programme (if any) submitted by the authority for each of these areas and the target year for its completion.

By March 31, 1960, 115 of these authorities had for various reasons not submitted programmes. The commonest reasons were that the authorities did not consider their districts to be black areas, or that they were concerned about the effect of smoke control orders on persons entitled to receive coal at concessionary prices from the National Coal Board. Most of the rest said that they had not yet been

able to prepare a programme, or that they wished to proceed with a pilot scheme before doing so.

The Minister is sending a circular to local authorities drawing attention to the Command Paper and asking those concerned to review the progress made in planning and executing the programmes for their areas.

SOUTHERN BUILDING SCHOLARSHIPS 1960

The Board of Administration of the Southern Counties Building Education Trust has made the following awards for 1960:

B. G. Aldous—Technical School for Boys, Gravesend—Scholarship to a total value £312, Ordinary National Diploma in Building, Medway College of Technology.

J. R. C. Epps—Canford School—Scholarship to a total value £240, to assist with College Building Diploma Course, Brighton Technical College.

M. T. Hilton—Ardingly College—Scholarship to total value £240, to assist with College Building Diploma Course, Brighton Technical College.

R. M. Brown—George Abbot School, Guildford—Educational grant to a total value £200, to assist in Ordinary National Diploma Course, at Guildford Technical College.

Details of the conditions of entry for the 1961 Scholarships are available from the Secretary, Sterling Buildings, Carfax, Horsham, Sussex.

*Smoke Control: Summary of Programmes submitted by Local Authorities. (Cmd. 1113, H.M.S.O. Price 3s. net.)

Trade Section**A NEW LIFE FOR WORN TYRES****Specialist Repair and Retread Service for Earthmovers**

A SPECIALIST service for the repair and retreading of earthmoving tyres, costing in the region of one third the price of a new tyre, is offered to civil engineering contractors by Blue Peter Retreads, Ltd., Basingstoke, Hants.

The company, who have been established since 1926, have been accepting earthmoving sizes of tyre for retreading for the past five years, and now possess, as the most recent development in their expansion programme, a separate Earthmoving Division for dealing with tubed or tubeless tyres up to the size of 27.00 x 33.

Collection and Delivery

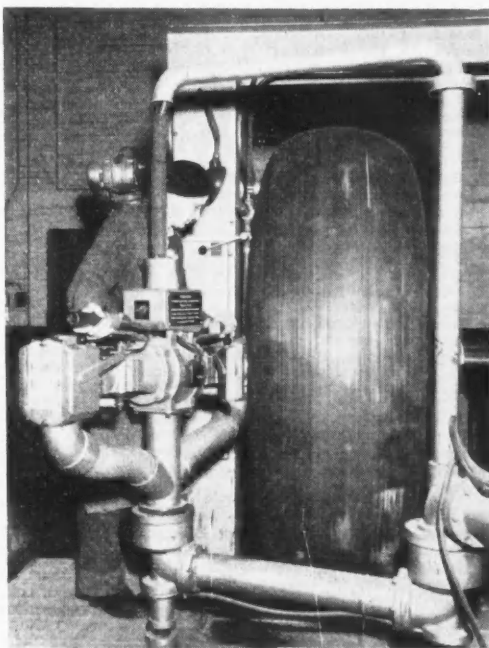
Collection of worn and battered casings is arranged through the company's network of distributors, and for the smaller sizes is carried out through the countrywide coverage of the "Blue Peter" fleet of standard vehicles. This fleet is augmented by a special unit which handles the larger sizes on or off site in collaboration with distributors, and which, apart from a regular weekly run to the north of England, is available for calling to any part of the country. Such collections can generally be achieved within 48 hours of being requested.

Upon arrival at the Basingstoke factory, tyres undergo an initial examination under conditions which cannot be matched on site, and a decision is made as to their fitness for processing. Where a casing proves unfit for process a report is issued and the tyre returned to the user, no charge being made.

Initial examination of car, commercial vehicle and agricultural tractor casings is carried out by the Casing Examination

Department, but in the case of earthmoving tyres inspection is made by the staff of the Earthmoving Division in their own building. A detailed system of documentation and marking which is carried out at this stage ensures that users receive their own tyres back after processing.

An important factor in successful re-



Removing the old rubber from a worn earthmoving tyre

treading lies in the preparation of the rubber compound with which the casing will be ultimately rebuilt. This preparation takes place in the mixing shop, where bales of natural rubber are guillotined into workable sizes and softened before mixing with carbon black and other chemicals.

From the mixing shop the compound is carried by conveyor belt to the open mills, where the mixing process is continued with the addition of sulphur powder. The compound is then extruded into strips of required thicknesses and profiles in accordance with the tyres for which it is designed. All compounds are prepared under rigid control, and from every batch a sample is taken for testing in the company's laboratory, claimed to be among the foremost of its kind in the retreading industry.

Within the laboratory the samples are given a hardness test, which provides a spot check for every batch of material prepared. Periodically, samples are thoroughly tested for other physical properties; specific

gravity, resilience, abrasion, ageing, flexing-tensile, compression set, plasticity and scorch.

Damage Repair

Part of the retreading operation consists of repairing damage which may be present in the tyre, prior to its preparation for retreading. Car, commercial vehicle and agricultural sizes are dealt with in the repair shop, but all earthmoving sizes are repaired separately within the Earthmoving Division.

Generally, the more slow-moving the tyre, the bigger the repair that can be made. There are limits to the amount of damage which can be made good, however, and the company, who guarantee their repairs, do not undertake any which, in their opinion, will not be reliable in service.

Damaged earthmoving tyres which are otherwise in good condition may be submitted for repair only, as distinct from retreading. Those accepted for this treatment are carefully inspected at every stage of the process, photographic records being kept of each job.

All repairs are carried out by the sectional mould/direct pressure method, ensuring complete vulcanisation of the reinforcing material to the casing.

Before the tyre can be prepared for the mould, the old tread rubber is stripped off by means of abrasive buffing machines. The buffing action leaves a surface suitable for bonding to the new material when moulding takes place.

Following this, the tyre is built up with new material which, as already mentioned, has been formed to the required shape and thickness in the mill room. The compound is attached to the casing by means of tacky solution, a careful butt joint being made where the strip joins. Another strip of material, with special flexing qualities, is attached in the same way to the sidewall between the shoulder of the tyre and bead, and measurements are taken to ensure that the correct mould is used for the particular tyre. Both cleanliness and the complete exclusion of air from beneath the new material are essential factors in this operation, if the moulding is to be successful.

Moulding Process

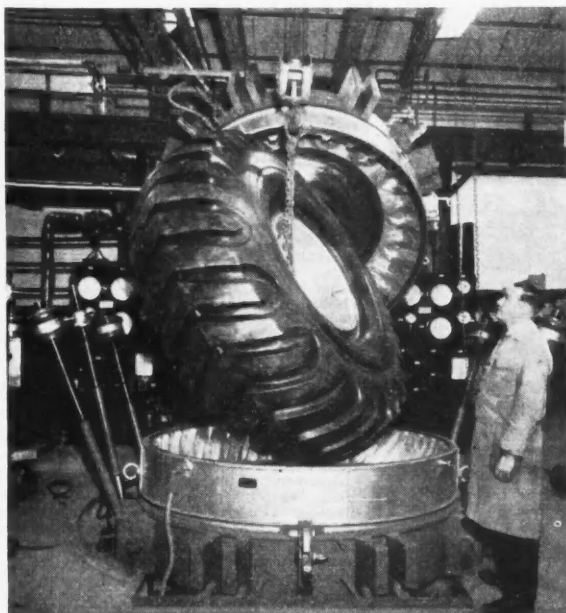
All tyres are retreaded at Basingstoke on the bead-to-bead principle, involving renewal of tread and sidewall rubber. Up to and including 18.00 sizes are moulded in the moulding shop, the retreading presses being designed to accommodate a widely varying number of moulds to take the different dimensions and tread design of tyres.

In the moulds, the unvulcanised compound is heated to a molten state, when it flows to take up the pattern of the mould, at the same time achieving complete vulcanisation to the old surface of the tyre. The curing time is dependent on the size of the tyre and the thickness of the rubber to be vulcanised.

Earthmoving tyres of larger sizes than 18.00, up to 27.00, are moulded in the Earthmoving Division and between 750 and 1,000lb. of rubber compound is used on one of these tyres of up to 36 ply. Complete records of charted temperatures and pressures during the moulding are retained for each tyre, and can be referred to should the necessity arise.

After retreading is complete, a final inspection takes place, and the tyre is painted before being returned to the customer. The normal maximum period for collecting, retreading/repairing, and delivering the larger earthmover tyres is 14 days. All sizes under 18.00 are usually processed and returned in seven days.

Retreaded tyres, it is claimed, are comparable in life span to a new tyre operating under similar conditions. A typical example of comparative costs is found in the earthmoving 27.00 x 33 36 ply tubeless tyre, the retread process price of which is £408 19s. 6d., as against the £1,125 10s. cost of a similar new tyre.



Completed retread is removed from the mould

Trade Section

NEW COMPANIES

The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London, W.C.2:—

L. W. Foster and Co., Ltd., Langford Lane, Kidlington, Oxon, builders. £10,000. Directors: Leonard W. Foster, 3 Cadogan Park, Woodstock, Oxon; Basil N. Foster, 63 Poplar Grove, Kidlington, Oxon.

Harris and Berridge, Ltd., 85 Lancashire Street, Leicester, builders. £1,000. Directors: Jessop H. Harris, 102 Curzon Avenue, Birstall, Leicester; Reginald G. Berridge, 85 Lancashire Street, Leicester.

Carn and Son (Eastbourne), Ltd., 90a Tideswell Road, Eastbourne, builders. £3,000. Directors: Charles L. Carn (permanent managing director) and Mrs. Elizabeth M. Carn, 15 Wedderburn Road, Willingdon, Sussex.

D. C. Powell and Co., Ltd., builders. £1,000. Directors: Derek C. F. Powell, 67 Woodthorpe Road, Ashford, Middx.; Kenneth J. Powell, 37 East Avenue, Hayes, Middx.; Mrs. Georgina G. W. Powell, Mrs. Marion R. Powell, Cecil J. Powell and Alice D. Powell.

E. G. King, Ltd., 10 Godstone Road, Purley, builders. £1,000. Directors: Edwin G. King and Mrs. P. M. King, 332 Chipstead Valley Road, Coulsdon.

V. E. Clifford, Ltd., Lynfield, Willingdon Road, Eastbourne, builders. £100. Directors: Vincent E. Clifford and Joyce M. Clifford, 2 Woodland View, Wivelsheld Green.

Wrekin Construction Co., Ltd. £10,000. Directors: Thomas Frain, Spring Village, Horsehay, Wellington, Salop (permanent director and chairman); Patrick J. Gorman, 16 Combermere Drive, Wellington, Salop; Stanley J. Parsell, 124 Watling Street, Wellington, Salop.

Bartlett Brothers (1960), Ltd., 79 High Street, Witney, builders. £5,000. Directors: Ernest B. Taylor, Ash Close, Gloucester Place, Witney; James E. Cousins, The Cottage on Narrow Hill, Witney; John W. Welch, Cedric G. C. Driver and James Dingle.

John C. Davies (Cardiff), Ltd., 19 Dumfries Place, Cardiff, builders. £1,000. Directors: John C. Davies, 23 Eskdale Close, Penylan; Wm. T. Taylor, Spitzkop, Colhugh Street, Llantwit Major.

E. Dyas (Builders), Ltd. £10,000. Permanent directors: Ernest Dyas and Mrs. Lillian Dyas, 17 Featherstone Lane, Featherstone, Yorks.

M.U.S.H. Contractors Plant, Ltd., 30 Castle Street, Dover, hirers of plant. £1,000. Directors: John H. Ullmann, 8 Beaufoy Terrace, Dover; Wm. A. Sedgwick, Castle View, Abbey Road, Dover; Harry Hammerton and Wm. L. McGarry.

A. King and Sons (Demolition), Ltd., 110 Ber Street, Norwich. £5,000. Permanent directors: Cyril V. King, 103 Lawn Avenue, Great Yarmouth; Alfred King, Cornercroft, Winterton, Norfolk; Joseph King, White Lodge, Horning, Norfolk.

D. Wilkinson, Builders (Hull), Ltd. £2,000. Director: Dennis Wilkinson, Killiney House, Wyton Bar, near Hull.

F.R.F. (Builders), Ltd., 13/14 Chapel Street, N.W.1. £5,000. Directors: Coulton Walker-Smith, 79 The Ridgeway, N.W.11; Leslie A. Green, 93 Ardwell Avenue, Ilford; William S. Rogers and Eric V. May, addresses not stated.

Robinson Building Techniques, Ltd., 1 Redcliffe Street, Bristol, 1. £100. Directors: John F. Robinson, St. Georges Hill, Eason-in-Gordano, near Bristol; Thomas L. Robinson, 23 Druid Stoke Avenue, Stoke Bishop, Bristol, 9; Wm. N. H. Orr, Avon House, Keynsham.

R. S. Lindsey (Builders), Ltd., 45-47 Albert Street, Rugby. £5,000. Permanent directors: Ronald S. Lindsey and Mrs. M. G. Lindsey, 5 Highland Road, Kenilworth.

S. H. Cook (Builder), Ltd. £1,000. Directors: Samuel H. H. Cook and Bentley C. S. Cook, 88 Hermitage Road, St. Johns, Woking, Surrey.

Stacey (Lytchett), Ltd., 850 Wimborne Road, Bournemouth, builders. £100. Permanent directors: Roy M. Stacey, 118 Rosemary Road, Parkstone; Reginald Stacey, 2 Berkeley Avenue, Parkstone.

T. H. Gorringe (Charlwood), Ltd., The Builders Yard, The Street, Charlwood, Horley, Surrey, builders. £100. Directors: Thomas H. Gorringe and Mrs. M. Gorringe, Horam, North Road, Three Bridges, Crawley, Sussex.

Woodall and Atkinson, Ltd., builders. £10,000. Directors: Edwin A. Woodall and Wm. A. Woodall, 161 Burton Road, Manchester, 20.

Eardley Building Contractors, Ltd., 2B Eardley Road, Belvedere, Kent. £2,000. Directors: Roy L. Filby, 181 Iron Mill Lane, Crayford; John H. Ashen, 2B Eardley Road, Belvedere, Kent.

Gurnett, Lyons (Portable Buildings) and Co., Ltd., Thames Road, Barking. £200. Directors: Francis T. Gurnett, Martinique, Passingham Road, South Green, Billericay; Jerome F. Lyons, 6 Fairfield Rise, Billericay.

Beacon Construction Co., Ltd., Yucon Works, Woods Lane, Cradley Heath, Staffs. £1,000. Directors: Leon Bacon and Thomas D. Green, 1 Chester Road, Cradley Heath, Staffs.

R. Densham and Sons (Construction), Ltd., 120 Fortune Green Road, N.W.6, builders. Directors: Stanley F. Densham, 92 Westbury Road, N.12; Leonard Densham, Cochrane, Holden Road, N.12; Lionel Densham, Kenneth F. Densham and Harry Ackroyd.

H. J. Knee (Building Contractors), Ltd., Court Street, Trowbridge. £5,000. Directors: John H. Knee, Hebden House, Trowle, Trowbridge; Noel H. Knee, address not stated.

Jack Fowler and Son, Ltd., 113 High Holborn, W.C.1, builders. £1,000. Directors: Harold S. Fowler and Mrs. G. Fowler, The Huntleys, Shilton Road, Burford, Oxon.

Gordon Construction, Ltd., 83-85 St. Mary Road, E.17, industrial and building contractors. £100. Directors: Douglas F. Gordon and Mrs. Joan I. Gordon, 8 St. Mary Road, E.17.

Hayward Construction Co. (Bristol), Ltd., 141 Cheltenham Road, Bristol, 6, builders. £1,000. Directors: Michael L. O'Keefe, 2 Haselbury Road, Bristol; Anthony J. Evans, 32 Sturdon Road, Bristol; Ernest Hayward.

Hutchinson and Dotterill, Ltd., builders. £2,000. Directors: Hugh F. Hutchinson, The Grange, Milton Ernest, Bedford; Charles H. Dotterill, 23 Garrard Close, Bexleyheath; Mrs. Zeebe L. M. Hutchinson and Ursula D. French.

Albert Hughes, Ltd., builders. £5,000. Directors: Not named. Subscribers: Mrs. P. M. Beckett, 37 Campbell Road, Stoke-on-Trent; Jean M. Copeland, 4 Trinity Place, Bucknall, Stoke-on-Trent.

E. G. M. Cape (U.K.), Ltd., builders. £5,000. Directors: Not named. Subscribers: Bruce H. Walker, 2 Raymond Buildings, Grays Inn, W.C.1 (solicitor); Chas. L. Clarke, 38 Normanton Road, S. Croydon (solicitor).

L. F. Cottis (Builders), Ltd., 36a Baker Street, W.1. £100. Director: Leslie F. Cottis, 15 Mallard House, St. Johns Wood, N.W.8.

D. F. and L. R. Weaver, Ltd., Little Orchard, Abbotskerswell, near Newton Abbot, Devon, builders. £100. Directors: David F. Weaver and Mrs. Joan P. Weaver, Little Orchard, Abbotskerswell, near Newton Abbot; Leopold R. Weaver, 28 Devon Square, Newton Abbot.

D. A. Stotesbury and Co., Ltd., West Haven, Castle Close, Ventnor, I. of W., builders. £3,000. Directors: David A. Stotesbury and Mrs. Louisa B. Stotesbury, West Haven, Castle Close, Ventnor, I. of W.

Calder Building and Construction Co., Ltd., Bankfield, Gosforth, Cumberland. £2,000. Permanent directors: Joseph T. Alderson and Mrs. Joyce Alderson, Bankfield, Gosforth, Cumberland.

Ben Butler, Ltd., 51 Club Street, Kettering, demolition contractors. £1,000. Directors: To be appointed by subscribers. Subscribers: Benjamin S. A. Butler, 5 London Road, Kettering; Paul W. Jessop, 51 Club Street, Kettering.

Michaelides Bros., Ltd., 229 New North Road, N.1, builders. £100. Directors: George C. Michaelides and Andreas C. Michaelides, 229 New North Road, N.1.

A. H. Dale (Contractors), Ltd., builders. £100. Directors: Alfred H. Dale and Mrs. Barbara D. Dale, 44 High Street, Kidlington.

Connaught Construction, Ltd., 58 London Road, Romford, Essex, builders. £100. Directors: Philip F. Murphy, Castilla Hotel, Plaistow Lane, Bromley, Kent; Mrs. Eileen M. Nally, 22 Sundridge Avenue, Bromley, Kent.

Devatelle, Ltd., civil engineering contractors. £100. Directors: To be appointed by subscribers. Subscribers: Ian Herbert (company director) and Thos. A. Herbert (barrister), 156 Strand, W.C.2.

Elmswood Construction Co., Ltd., 48 Parliament Street, Nottingham. £6,000. Permanent directors: Richard B. G. Bryant, 8 North Road, The Park, Nottingham; Robert R. Bryant, 11 Salcombe Drive, Redhill, Arnold, Notts; Jose Bryant, Sidney Goldberg and Danna Rubins.

H.B. and L., Ltd., Queens House, Leicester Square, W.C.2, builders. £1,000. Directors: Lawrence R. Hearn, Zell-am-See, Stubbs Woods, Chesham Bois; Lawrence Larking, 93 Pollock Road, S.E.17. P. Burke.

J. H. Chiswell and Sons, Ltd., 47 Burnt Mill Lane, Gilston, near Harlow, builders. £1,000. Directors: To be appointed by subscribers. Subscribers: Joseph L. Chiswell, 147 Larks Hall Road, Chingford; L. Leslie Chiswell, 19 Paternoster Hill, Waltham Abbey.

Maidment Contractors, Ltd., Cambrian Road, Newport, Mon., plant hirers. £100. Directors: Dorothy I. Dobbs, 11 The Grove, Rumney, Cardiff; Leslie Maidment, Cambrian Road, Newport, Mon.; James Turner, 22 Bathurst Mews, W.2.

Apcon, Ltd., 11-13 Selkirk Road, S.W.17, builders. £100. Directors: William J. Foreman, 88 Trevelyan Road, S.W.17; James S. Bristol, 42 Chetwoode Road, S.W.17; Evelyn Levy, 10 Maybury Street, S.W.17.



Increasing interest is being shown in the use of power shift transmission on smaller earthmoving machines due partly to increase in ground speed and subsequent production, and partly to greater ease and comfort of operation. This was noticeable when a new Caterpillar 955H Power Shift Traxcavator was demonstrated recently to John Laing and Son, Ltd., on the Barnet By-pass site by Fred Myers, Ltd., where the machine was regularly loading 7 cu. yd. capacity lorries in under 70 seconds. The above photograph was taken during the successful demonstration which resulted in an order for a fleet of 955H Traxcavators being placed with Fred Myers, Ltd. Details of the 955H were given in *The Contract Journal* on July 21 last

Trade Section**TRANSFORMATION IN STEEL INDUSTRY**

SIR ELLIS HUNTER, chairman and managing director of Dorman Long and Co., Ltd., reviewing the first 25 years of the British Iron and Steel Federation in a recent issue of *Steel Review*, says there has been a remarkable transformation of the industry. It has gone from depression and stagnation to prosperity and expansion.

The 10 years before the Federation's establishment in 1934 were the most difficult the steel industry has ever experienced. Almost more than any other industry it suffered from the slowness of the country to recognise that the free trade policy, which had worked successfully in the 19th century, when Britain was the only fully industrialised country in the world, had become quite unsuited to the situation in which Britain was by then placed.

Accent on Competition

The wheel has turned the full circle, he says, and with the passage of the Restrictive Practices Act and the formation of the European Free Trade Association the primary accent is again on competition. The circumstances are, however, fundamentally altered. In the 1920s, Britain alone adhered to free trade at a time when her competitors barricaded themselves behind high tariffs. Today the industry has some safeguards against dumping and competition is on more equal terms.

Even more important, the complete re-equipment of the industry and the doubling of its capacity made possible by the changes inaugurated in 1923-34 has revolutionised the industry's competitive position, Sir Ellis says.

WIMPEY OCCUPY FLYOVER HOUSE

To house the growing number of staff dealing with the complete design and procurement of chemical plants and oil refineries for countries throughout the world, George Wimpey and Co., Ltd., have leased Flyover House, the new 12-storey office block at the point where the Great West Road approaches the Chiswick Flyover. Initially, a staff of 550 will occupy the greater part of the new building.

Among the projects on which the staff are at present engaged are the design and procurement of a £A4m. polythene plant in Australia, the procurement of a chemical plant to be erected in Antwerp, and important work for other countries including Nigeria and Kuwait.

At home, similarly comprehensive contracts, including mechanical, electrical and instrument engineering, are being undertaken for various large oil and chemical companies for sites at Carrington, Grange-mouth, and the Isle of Grain. In many of these contracts the Wimpey Organisation is also responsible for construction.

Flyover House has a net floor area exceeding 100,000 sq. ft. The building has large glazed areas which admit an exceptional amount of light. It is equipped with modern lifts and oil-fired central heating, also a staff canteen and parking space for 200 cars.

NEW GOODYEAR TYRE

Goodyear Tyre and Rubber Co. (Great Britain), Ltd., are to show for the first time at the forthcoming Commercial Motor Show a new tyre called "The Super Road Lug." The tread pattern has been scientifically designed to give utmost performance for both on and off the road service, and it is available in the Goodyear 3-T construction.

NEW SCHEME FOR STANDARDS ASSOCIATES

A MEETING held recently at British Standards House in London of over 100 engineers and others concerned with the application of standards in industry gave its support to a new scheme sponsored by the British Standards Institution for a "Register of Standards Associates." Mr. H. A. R. Binney, director of B.S.I., was in the chair.

The objects of the scheme were agreed to be:

"To provide a forum for those connected with standards matters, to increase knowledge and develop techniques in order to further the aims and practice of standardisation, generally through discussion and dissemination of information."

Those on the register will become associates of the B.S.I. They will receive copies of *B.S.I. News* each month, a list of the names on the register from time to time, and, it is hoped, a special bulletin.

The programme of activities—local and regional meetings—will be organised by a programme committee made up of regional representatives; a management committee will be responsible for the scheme as a whole. The meeting agreed that the existing Institute of Production Engineers/B.S.I. committee on the use of standards in industry, enlarged by six members (to be nominated by the programme committee) would form the management committee.

The programme committee was elected at the meeting; it consists of 14 members: six for the London and South East region, two for the Midlands, two for the North West, two for Scotland, one for the South West and Wales and one for the North and North East.

The initial annual subscription to join the register is one guinea. Those interested are invited to register now and to send in their guinea subscription. This should be sent, together with the applicant's address for correspondence, the name of his organisation and his position in it, to the Joint Secretary, I.Prod.E./B.S.I. Committee, British Standards Institution, 2 Park Street, London, W.1.

VILLIERS £2M. EXPANSION PROGRAMME UNDER WAY

The first stages in the Villiers £2m. expansion programme planned to take place within the next four years are under way with new buildings and workshop extensions in course of construction at the Marston Road, Wolverhampton, factory of The Villiers Engineering Co., Ltd., and at the factories of Robert Harris, Ltd., and Villiers (Tool Developments), Ltd., at Waddens Brook, Wednesfield.

The building programme is necessary to enable Villiers to implement their plans for new engine projects and for increased engine production. These new projects involve road-vehicle as well as agricultural and industrial engines, several of advanced design and construction.

INDUSTRIAL EFFLUENT ADVISORY SERVICE

Simon-Carves, Ltd., and Monsanto Chemicals, Ltd., have pooled their research, engineering and operating experience in the treatment and harmless disposal of industrial effluent to form the Simon-Carves Monsanto Effluent Advisory Service. The service, administered by Simon-Carves, Ltd., from their headquarters at Cheadle Heath, Stockport, Cheshire, provides general advice on effluent problems, on-site and laboratory investigations on the treatment of specific effluents, recommendations and design data for effluent treatment processes and plants, continuing advice on the operation of commissioned treatment plants.

ELECTRICITY FOR FACTORY HEATING

METHODS of using electricity for heating factories, workshops, stores and similar premises will be featured on the stand of the Electrical Development Association (Stand 96C) at the Factory Equipment Exhibition at Manchester, September 21-October 1.

Three main methods will be represented, floor warming, block storage heating, and infra-red heating. The floor warming system employs electrically heated wires embedded in the concrete floors, which stores the heat, until it is given out later when the current has been switched off. Full-scale models will be displayed which show how the system is applied, while enlarged photographs will give details of a number of working installations.

Block storage heaters consist of an assembly of blocks of concrete incorporating electric heating wires, the whole being enclosed in a sheet metal case. The blocks are heated up during the night hours, the heat being given out steadily during the day following. Typical examples will be displayed of block storage heaters by various manufacturers.

Infra-red heaters can be installed either on the walls or ceilings of factories and workshops at a suitable height, and represent a saving in running cost because they may be used singly, in groups, or all at once, depending upon whether a small or large area is to be heated. Infra-red heaters, several examples of which will be exhibited, provide instantaneous localised warmth, as distinct from the continuous space warming provided by either floor warming or block storage heating.

PRIESTMAN EQUIPMENT TO BE MANUFACTURED IN AUSTRALIA

Priestman Bros., Ltd., Hull, are to begin operations in Australia early next year. The firm has licensed Australian National Industries, Ltd., to manufacture its equipment in the Sydney suburb of Lidcombe.

Mr. James Priestman, deputy managing director, said in Sydney that his company is to provide the technical knowledge and blueprints. The joint arrangement was planned to supply the Australian market with medium- and small-powered excavators, grabs and cranes, and to export these to nearby countries. His company was currently exporting equipment to 60 countries, including Communist and Far East nations.

ROOTES AT COMMERCIAL MOTOR SHOW

The feature of the Commer and Karrier exhibits at the Commercial Motor Show this year (Earl's Court, London, Sept. 23-Oct. 1) will be the 3-ton forward control range of light goods and passenger models which are being displayed at Earl's Court for the first time.

In addition to these models there will be a complete range of Commer and Karrier vehicles ranging from the 7cwt. capacity Commer Cob to the Commer 12-ton forward control tractor.

NEW TYPE OF WALL PLUG

Grippe Products, Ltd., Henshaw Works, Oldham, have introduced a new type of wall plug fitting called the Gippoplug. This has a tapered brass collet which, when fitted, is buried inside the wall in an expanding shell to securely lock the plug in position.

To fix a bolt a hole is drilled to the depth of the screw and the shell and collet inserted. Then the screw is passed through the article to be fixed and screwed into the collet. As it is tightened the tapered collet exerts a thrust against the expansible shell.

Current Constructional Activities

PROJECTS

CONTRACTS

AWARDS

THIS editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the *Journal*.

BUILDING AND DECORATING

(See also Housing Schemes)

Baldon, Yorks.—West Riding C.C. recommended to approve scheme for adaptation of Children's Home, Tong Park House, for use as a remand home. Estimated cost £3,500.

Bangor, Down.—Ministry have approved redevelopment plan for the Castle Street/Castle Square area, for B.C. The scheme includes 42 flats, maisonnettes over shops, car parking facilities and an improved market layout. Estimated cost £250,000.

Barrow-in-Furness, Lancs.—Ministry have approved in principle and authorised preparation of working drawings and bills of quantities for provision of new operating theatre and lift at Roose Hospital, for the Manchester Regional Hospital Board.

Blackburn, Lancs.—Borough Engineer to be authorised to prepare plans, etc., for erection of a hostel for aged persons at Burnley Road.

Bury, Lancs.—Subject to Ministry approval, working drawings and bills of quantities are to be prepared for upgrading of wards 3 and 4 and provision of a milk kitchen at Fairfield General Hospital, for the Manchester Regional Hospital Board.

Cambridge.—City Council have approved scheme for an indoor swimming pool at Donkey Common. Estimated cost £250,000.

Cardiff.—City Council recommended to apply for sanction to borrow £108,828 and £147,022, respectively for the erection of Penyrheol and Fairwater County Primary Schools; approve, subject to Home Office approval, draft scheme for the construction of an additional all-purposes court at the Law Courts. Estimated cost £20,000.

Chelmsford, Essex.—H. Bingham Towner, Hooke Hall, High Street, Uckfield, Sussex, is the architect and Harold Powell, Duke Street, Brighton, the quantity surveyors for the erection of a Roman Catholic church at Melbourne Avenue, for the R.C. Diocese of Brentwood. Estimated cost £20,000.

Clayton, Yorks.—West Riding C.C. recommended to approve scheme for reorganisation and upgrading of second floor of main block at Thornton View. Estimated cost £3,670.

Cork, Eire.—Ministry have approved alterations and extensions to eye, ear and throat hospital. Estimated cost £17,000.

Dewsbury, Yorks.—B.C. have applied for sanction to borrow £19,000 for erection of brick boundary walls, gates and gate posts on the Valley Road, Ouzelwell Lane and Slaithwaite Road housing estates and the Westtown redevelopment area 1.

Doncaster, Yorks.—Ministry have granted planning permission to Pilkington Brothers, Ltd., for development of a 73-acre site adjoining the firm's Kirk Sandall works.

Doncaster, Yorks.—B.C. recommended to approve in principle and submit to the Sheffield Regional Hospital Board, scheme for improvement of day room accommodation in part 3 accommodation at Western Hospital. Estimated cost £17,500.

B.C. recommended to apply for sanction to borrow £94,150 for wholesale fruit and vegetable market.

Dudley, Worcs.—B.C. recommended to approve scheme for 13 garages at rear of Hawkesley Road; approve and submit to M.E. approval, plans for extensions to Dudley Grammar School; approve schemes for a gymnasium at Dudley Girls High School and sanitary accommodation at St. John's Junior and Infants' Schools. Estimated cost £20,000 and £2,500 respectively.

Exeter, Devon.—Sketch plans have been approved for the erection of a new school for the partially sighted at Tonsham Road near Southbrook Road, for the West of

England Institution for the Blind. Stillman and Eastwick-Field, 30 John Street, Bedford Row, London, W.C.1, are the architects and Davis, Belfield and Everest, 9 Ashley Place, London, S.W.1, the quantity surveyors.

Falkirk, Stirlings.—B.C. propose to erect a public convenience at Dollar Park. Estimated cost £2,989.

Gateshead, Dur.—Borough Surveyor to prepare plans for the erection of five shops with flats at Lobley Hill.

Glasgow.—House of Fraser, Ltd., 10 Buchanan Street, C.1, are to develop the site extending from Jamaica Street to St. Enoch Square as a departmental store. Estimated cost £1m.

Grangemouth, Stirlings.—Dean of Guild Court have approved plans for the following: a new primary school at Osgang Road to replace Dundas School, estimated cost £145,000; erection of a timber storage shed at Beancross Road for John Sinclair (Timber) Ltd., 166 Buchanan Street, Glasgow, £5,250.

Greenock, Renfrews.—B.C. have approved in principle a plan to redevelop the town centre by Murrayfield Real Estate Co., Ltd., Cornhill House, 144 West George Street, Glasgow. The scheme includes 150 shops and 800 dwellings in multi-storey blocks. Estimated cost £5m.

Hawick, Roxburghs.—Dean of Guild Court have approved the following: Plans for a divisional police headquarters on the Wilton Hill site for the Berwick, Roxburgh and Selkirk Police Board, estimated cost £91,000; alterations to present premises at 11 High Street for Hawick Savings Bank, £10,000.

Kesteven.—County Architect to prepare revised plans for new technical college at Stamford.

Kettering, Northants.—J. Sainsbury, Stamford House, Stamford Street, London, S.E.1, have acquired the site of the Crown Inn and Crown Brewery at Gold Street for the erection of a food store.

Kingsclere and Whitchurch, Hants.—R.D.C. to prepare scheme for the erection of conveniences at the Market Place.

Kiveton Park, Yorks.—West Riding C.C. recommended to purchase site in Woodsetts Road, North Anston, for erection of aged persons home.

Leeds.—City Council have authorised expenditure of £43,172 for alterations and adaptations to former Denison Hall Nursing Home, Hanover Square, to provide homes for old people.

Northern Ireland.—Hospitals Authority propose a new hospital at Downpatrick on land adjoining the present Downshire Hospital. The accommodation will include operating theatres, a delivery suite, a central sterilising supply department, casualty, x-ray and physiotherapy departments and a laboratory.

Pontefract, Yorks.—West Riding C.C. recommended to approve expenditure of £6,000 for reorganisation and upgrading of residential accommodation for men in main block at Northgate Lodge.

Rochdale, Lancs.—Town Planning permission granted for new assembly hall and kitchen at St. Patrick's R.C. School, Lomax Street, for the Salford R.C. Diocesan Trustees, and Kingsways Secondary Modern School, for E.C.

Rotherham, Yorks.—West Riding C.C. recommended to approve the erection of a residential nursery in Moorgate Road, estimated cost £19,850; demolition and the rebuilding of the south tower of the Lady Mabel College of Physical Education, £2,750.

St. Albans, Herts.—City Council recommended to approve plans for extension to factory with office accommodation at 224 London Road for Record Food Products Co., Ltd.

Southampton.—B.C. recommended to approve preliminary plan for an additional room at Sholing Community Centre, Butts Road, estimated cost £1,750; sketch plan for new science block at Western Secondary School, £16,500; stage 2 of the Redbridge Hill fire station scheme, comprising workshop, etc., £13,000; prepare preliminary scheme for an extension to Brownhill old people's home.

Southport, Lancs.—Borough Architect to be instructed to prepare plans, etc., for the erection on a site at Ainsdale, of a 24-place hostel for mentally sub-normal persons.

Stockport, Ches.—B.C. recommended to approve scheme for alterations required in connection with the re-allocation of office accommodation at the Town Hall, estimated cost £1,316; proceed with the erection of a

permanent library at Brinnington, £20,000; approve layout for the development of the Emporium site by the provision of a shop with four flats above and an estates superintendent's office; approve for inclusion in the 1960/61 programme scheme for the provision of a new school at Portwood Nursery, £12,000.

Stoke-on-Trent, Staffs.—City Council recommended to prepare schemes for the provision of improved toilet and dressing accommodation at Middleport Park.

Swinton and Pendlebury, Lancs.—Borough Surveyor to be requested to prepare outline plans for the proposed Chorley Road shopping centre opposite the Town Hall.

Swinton, Yorks.—West Riding C.C. recommended to approve expenditure of £4,000 for adaptations at Swinton Modern School.

Wakefield, Yorks.—West Riding C.C. recommended to approve the refacing of the exterior walls of the county supplies building in Cliff Lane (including the renovation of those parts of the walls where the reinforcement is exposed) over a period of two years, and that the first phase of the work be carried out at an estimated cost of £2,464.

Walthamstow, Essex.—B.C. recommended to approve scheme for the layout of Brunner Road site by the provision of single-storey unit factories, two-storey buildings, service roads and car parking for 75 cars.

Watford, Herts.—B.C. recommended to approve in principle design and layout of proposed community centre and sports pavilion at King George V playing fields.

B.C. recommended to approve plans for the conversion of the Odeon Cinema, St. Albans Road, into a supermarket, for Revensett Properties, Ltd., 52 Charles Street, London, W.1.

West Riding.—C.C. recommended to approve the erection of clinics at Dinnington, Thurnscoe and Worsbrough. Estimated cost £11,300, £11,300 and £19,400, respectively.

ELECTRICAL

Sheffield.—City Architect recommended to negotiate a tender with the Express Lift Co. for provision of an additional lift in connection with stages 1 and 2 of the erection of the College of Technology.

Stoke-on-Trent, Staffs.—City Council recommended to prepare detailed scheme for the installation of traffic lights at junction of Church Street, Liverpool Road and Hartshill Road.

GAS AND WATER SUPPLY

Anglesey.—C.C. are considering scheme for the provision of a large impounding reservoir at Cors-y-Bol (Marsh of the Bulge).

Bradford, Yorks.—City Council recommended to approve laying of water mains. Estimated cost £10,000.

Canvey Island, Essex.—Southend Waterworks Co. propose scheme for the improvement of the water supply on the island by the laying of a 15in. main across the creek and then following a line north of the Winter Gardens where it will sub-divide into 6in. and 4in. mains. Estimated cost £80,000.

Cheshire.—Ministry have approved plans to construct a channel to facilitate the removal of surface debris at the Cester intake, for the West Cheshire Water Board. Estimated cost £13,418.

Enniskillen, Fermanagh.—R.D.C. have approved the provision of a water supply from Brockagh Bridge, Florencecourt, to Belcoo, estimated cost £45,000; propose to apply for a loan in respect of a water extension scheme for the following areas: Derryaghna to Archdale's Cross, Arney to Vance's Turn, and Drumlaghey to Macken Cross, £26,520.

Lisnaskea, Fermanagh.—R.D.C. have approved the provision of a water supply to serve the Rosslea area. Estimated cost £70,000.

Llanfyllin, Monts.—R.D.C. hope to invite tenders in September for the construction of the Llanantffraid water supply scheme, including an abstraction plant for taking water from the river Vyrnwy and a reservoir and the associated pipelines.

Malpas, Ches.—C.C. have approved in principle scheme to provide a water supply to properties at Tilston and Horton-by-Malpas. Estimated cost £2,100.

Oswestry, Salop.—R.D.C. to apply to Ministry for permission to proceed with the water supply scheme for Llanymynech.

Sligo, Eire.—B.C. propose to raise a loan of £8,000 for carrying out a water extension

scheme for Castle Street, Grattan Street and John Street.

Sheffield.—City Council recommended to approve alterations and diversions of mains and services in Button Lane and Carver Street. Estimated cost £2,216; to approve extensions and renewals of water mains, £10,381.

Southampton.—B.C. recommended to submit to Ministry for approval in principle, scheme for the provision of a boosting station at Woodside, estimated cost £30,000; approve plans for laying a water main from Stoneham Lane to the school playing field, £1,300.

B.C. recommended to appoint Le Grand Adco., Southall, Middx., to carry out a geographical survey at Twyford pumping station.

Tarvin, Ches.—C.C. have approved in principle scheme to provide a water supply to houses at Bradley. Estimated cost £2,430.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Eire.—Ministry of Lands and Fisheries propose a development programme for fisheries under which the fishing ports of Houth, Castletown Bere, Passage East and Galway, are to be made major ports. Estimated cost £1m., in addition, a development scheme for Killybegs Harbour, Co. Donegal is to be undertaken, £200,000.

HEATING AND VENTILATING

Bradford, Yorks.—City Council to request Ashwell and Nesbit, Ltd., 32 Headingley Lane, Leeds, 6, to prepare a detailed scheme for provision of additional heating at Thornbury depot.

Bury, Lancs.—Ministry have approved in principle and have authorised preparation of working drawings and bills of quantities for provision of new boiler house and plant at Fairfield General Hospital, for the Manchester Regional Hospital Board.

Dudley, Wores.—B.C. recommended to instruct Hoare, Lea and Partners, consulting engineers, 23 St. James Road, Calthorpe, Birmingham, 15, to prepare documents in order that tenders may be invited for the installation of a coal-heating system in the central police station and fire station.

Kendal, Westmor.—Manchester Regional Hospital Board Buildings and Works Committee have approved in principle scheme for improvements to engineering services at Kendal Green Hospital. Working drawings and bills of quantities to be prepared.

Macclesfield, Ches.—Manchester Regional Hospital Board Buildings and Works Committee have approved in principle scheme for improvements to heating services (phase 1) at Parkside Hospital. Working drawings and bills of quantities to be prepared.

Walhamstow, Essex.—B.C. recommended to approve scheme for the installation of twin oil-fired boilers at the public baths.

HOUSING SCHEMES

Beeston and Stapleford, Notts.—U.D.C. have submitted to Ministry for approval plans for the erection of 70 dwellings, old folks' bungalows and a community centre at The Fishpond, Bramcote.

Cheltenham, Glos.—Borough Surveyor to prepare sketch plans for a block of 12 bed-sitting rooms at Dowty House.

Dewsbury, Yorks.—B.C. recommended to approve plans for 24 semi-detached bungalows at Slaithwaite Road for T. Pryke, Ltd., Frank Lane, Thornhill.

Dudley, Wores.—B.C. recommended, subject to Ministry approval to invite tenders in the autumn for two contracts of 250 houses each for erection at Russell's Hall estate and in due course for the development of the Bullring, Stourbridge Road.

Eston, Yorks.—Shannon (Contractors), Ltd., 44 Marsh Road, Middlesbrough, are planning housing and shopping developments at Lodge Farm. The scheme includes the erection of 500 houses, a shopping centre with 31 shops, hotel, social club, garage and filling station.

Evesham, Wores.—B.C. have approved the erection of a three-storey block of 12 flats at junction of Bewdley Lane and Henry Street.

Frome, Som.—U.D.C. recommended to purchase land at the Mount for development as a housing estate.

Gateshead, Dur.—Borough Surveyor to be instructed to prepare detailed drawings for erection of houses for sale.

Gateshead, Dur.—Borough Engineer prepared plans for 14 houses at Newbury Avenue.

W. H. Oliver, Ltd., 25 Simpson Street Newcastle upon Tyne, are seeking permission to erect 12 flats at Maple Grove.

Llandudno, Caerns.—U.D.C. have approved in principle modified scheme for the redevelopment of the temporary bungalow site at Tre Cwm by the erection of 108 dwellings, 28 garages and a shop.

Mansfield, Notts.—B.C. propose the erection of eight old people's bungalows on land at corner of Ruskin Road.

George Wimpey and Co., Ltd., are to erect 400 houses and bungalows at Oak Tree Lane estate.

Mildenhall, Suffolk.—R.D.C. have approved plans for housing development at Town Street Road, Brandon.

Morpeth, Northumb.—B.C. planning the erection of 89 houses of the Gregory type on the Spelvit Lane site.

Southend-on-Sea, Essex.—B.C. recommended to approve plans for the erection of a block of 15 flats and garages at Walters Close, Rayleigh Road, Eastwood, for Avery Bros., 79 Leighton Avenue, Leigh-on-Sea.

Stretford, Lancs.—B.C. recommended to invite Matthews and Mumby, Ltd., John Laing and Son, Ltd. and Truscon, Ltd. to submit firm tenders for construction of tower block of flats in the Cornbrook Park Road area.

Taunton, Som.—R.D.C. propose the erection of 65 bungalows at various sites in the district.

Welshpool, Monts.—Mervyn Edwards and Moreton, architects, 5 Lower Brook Street, Oswestry, are to prepare plans for the erection of a block of 10 houses with car ports (instead of garages) at Oldford estate, for B.C.

PLAYING FIELDS, PARKS, ETC.

Ashton-under-Lyne, Lancs.—B.C. recommended to apply for sanction to borrow £1,650 for reconstruction of playing field at rear of Oxford Park, including levelling, soiling and seeding down approximately 10,000 sq. yd., and £2,000 for reconstruction of two football pitches at Richmond playing fields, including levelling, soiling and seeding down of approximately 15,000 sq. yd.

Barnet, Herts.—U.D.C. to proceed with scheme for the provision of three tennis courts at Oak Tree sports ground, Totteridge.

Bootle, Lancs.—B.C. to prepare scheme for laying out of Corporation's portion of the island site at Park Lane, Netherton, as an ornamental garden.

Castle Ward, Northumb.—R.D.C. have approved a scheme for the development of local playing fields.

Christchurch, Hants.—B.C. have approved scheme for laying out the roundabout at High Street end of the by-pass. Estimated cost £1,600.

Dudley, Wores.—B.C. recommended to approve schemes for Redgra playing fields for Bishop Milner R.C. Secondary, Wren's Nest and Swan Street Schools, estimated cost £2,000, £1,500 and £5,000 respectively; prepare plans for development of land in Clee Road as playing fields.

Ipswich, Suffolk.—B.C. have approved, subject to M.E. approval, scheme for the provision of tennis courts, cricket practice wickets and jumping pits at the Civic College. Estimated cost £5,049.

Morecambe, Lancs.—B.C. to apply for sanction to borrow £5,674 for work on first part of new King George V playing fields in Lordsome Road.

Newtownabbey, Antrim.—U.D.C. approved a plan to buy 72 acres of land near Whitewell Road as playing fields at a cost of £430,600.

Staffordshire.—Roads and Bridges Committee have approved scheme for strengthening and widening the Oakmoor to Whiston Road. Estimated cost £6,000.

Stockport, Ches.—B.C. recommended to appoint D. G. Thornley, Butley Hall Green, Prestbury, Ches., as landscape architect for the Errwood reservoir scheme; approve the provision of a playing field at Longford Road West. Estimated cost £6,000.

RIVER AND FLOOD PREVENTION WORKS

Beverley, Yorks.—Hull and East Yorkshire River Board to submit to the Ministry of Agriculture and Fisheries scheme to build a wall on the Humber Bank and stop erosion threat to Blackburn's works at Brough. Estimated cost £350,000.

Colchester, Essex.—B.C. have no objections to proposal by Essex River Board to dam Reeves Hall Creek, East Mersea.

Portland, Dorset.—Ministry have granted U.D.C. £6,800 towards the provision of a new sea wall. Total estimated cost £13,383.

ROADS, BRIDGES AND SITE WORKS

Birmingham.—Public Works Committee have approved in principle construction of elevated road providing a link with the London motorway at estimated cost of £3½m. Subject to Ministry approval, it is hoped to start work next year.

Cardiff.—City Council recommended to approve in principle scheme for the improvement of Trowbridge Road and Greenway Road between its intersection with Trowbridge Road and the City boundary, providing for a 30ft. carriageway and two 10ft. footpaths.

Carrickfergus, Antrim.—B.C. propose to build a new sea-front road. Estimated cost £405,000.

Cheshire.—C.C. have approved, subject to M.T. approval, scheme for the widening and strengthening of Prestbury railway bridge and Poynton Station railway bridge. Estimated cost £25,250 and £35,500.

Doncaster, Yorks.—West Riding C.C. recommended to approve, subject to grant being obtained and to British Transport Commission contributing £6,000 towards the cost, the expenditure of £16,000 in widening the Doncaster and Saltersbrook (class I) county road in conjunction with the reconstruction of the railway overbridge at Marr, in the rural district.

Dudley, Wores.—B.C. recommended to prepare scheme for making-up footpaths outside Salamander Inn and in front of new flats at Nith Place.

Falkirk, Stirlings.—Town Planning Committee have recommended that F. A. Macdonald and Partners, consulting engineers, 11 Woodside Terrace, Glasgow, C.3, be engaged for the design of a pedestrian bridge to be included in the Callendar Riggs/Silver Row Development.

Gateshead, Dur.—B.C. have approved road improvement schemes, Rectory Road, £7,136; Bensham Avenue, £2,758 and Oswald Terrace, £1,875.

B.C. to invite selective tenders for preparation of land at East Gateshead for future industrial development. Estimated cost £97,000.

Glasgow.—Highways Committee have approved in principle a scheme for the construction of a 74ft. wide highway with dual carriageway from Great Western Road northwards to Kinfauens Road, Drumchapel, estimated cost £155,000; approved plans for improved crossings, with trees and flower beds replacing the former tramway in Great Western Road, £15,570.

Hemsworth, Yorks.—West Riding C.C. recommended to approve, subject to satisfactory grant and loan sanction being obtained, a contribution of not exceeding £23,992 being made to the British Transport Commission towards the cost, at present estimated at £38,200, of widening and reconstructing bridge 23 which carries the South Elmsall, Upton and Wentbridge (class II) county road over the railway, and widening the approaches thereto, at South Elmsall, in the rural district.

Ipswich, Suffolk.—B.C. have approved scheme for the widening of Grimwade Street. Estimated cost £21,715.

Luton, Beds.—M.T. have approved scheme for widening a stretch of New Bedford Road between Stockingstone Road and the borough boundary, and construction of a roundabout at the Stockingstone cross-roads for B.C. Estimated cost £65,000.

Mexborough, Yorks.—West Riding C.C. recommended to approve, subject to the Mexborough U.D.C. contributing one-third of the cost, expenditure of £20,000 in constructing a footbridge over the River Don on the boundary between the Mexborough Urban and Doncaster Rural Districts and a fixed bridge over the canal in the urban district.

Monmouth.—B.C. recommended to prepare plans for making-up Dixon Close.

Morley, Yorks.—West Riding Town and Country Planning Committee have approved B.C.'s proposals to layout new roads and to the siting and means of access to 76 dwellings and 42 garages to be erected off Asquith Avenue and Nephshaw Lane.

Peterborough.—City Council recommended to approve in principle scheme for making-up Sherwood Avenue. Estimated cost £1,240.

Rossendale, Lancs.—Subject to Ministry approval, working drawings and bills of quantities are to be prepared for provision of new access road at General Hospital, for the Manchester Regional Hospital Board.

Sedburgh, Yorks.—West Riding C.C. recommended to approve, subject to grant, expenditure of £2,425 for widening and construction of footpath along the Sedburgh and Kirkby Stephen (class I) county road co-extensive with Thorns Hall, at Thornsbank in the rural district.

Sheffield.—City Council recommended to approve the paving of forecourts in front of new and proposed development in The Moor, estimated cost £1,500; widening of Matilda Street between The Moor and Porter Street, including road works, diversion of mains and services, etc., £1,500; realignment of Earl Street between The Moor and Cumberland Way, including road and sewer works, diversion of mains and services, etc., £4,000.

City Engineer to be authorised to carry out following schemes: City Road (Ridgeway Road to Hurlfield Road)—construction of dual carriageways, estimated cost £8,250; Penistone Road-Parkside Road—junction improvement, £8,300; Snaithing Lane-Belgrave Road—junction improvement, £2,140; Newman Road-Merton Lane—junction improvement, £4,093.

Shipston-on-Stour, War.—R.D.C. have prepared preliminary plans for a three-storey

block of dwellings at Cripplegate Cottages site and four bungalows at Badgers Crescent.

Stockport, Ches.—B.C. recommended to approve surfacing of roadways at Fletcher Street car park, estimated cost £950; plans for the making-up of Bramwell Street, Kinnaird Crescent and Rayner Street, £5,177.

Stoke-on-Trent, Staffs.—City Council recommended to prepare scheme for widening the carriageway in Church Street; approve plans for making-up Heaton Street (part) at Milton, Heming Place (part) at Bucknall, Derek Drive, Dunsany Grove, Donald Road, Moxley Avenue (part), Courtway Drive (part), Marston Grove, Churston Place and Cranleigh Avenue at Sneyd Green.

West Kesteven, Lincs.—R.D.C. have approved layout for six additional bungalows at Poor Row, Barkston.

Zetland, C.C. have appointed Blyth and Blyth, consulting engineers, 135 George Street, Edinburgh, 2, to survey and prepare designs for bridges to link the mainland of Shetland to the islands of Trondra and Burra. Estimated cost £367,000.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Barnet, Herts.—U.D.C. have approved scheme for the provision of main drainage facilities at Hendon Wood Lane, Barnet Gate Lane and Mays Lane. Estimated cost £26,300.

Bedale, Yorks.—R.D.C. propose sewerage and sewage disposal scheme at Thornton Watlass at a cost of £4,050.

Boldon, Dur.—U.D.C. have approved in principle a proposed joint intercepting sewer scheme prepared by the Borough Engineer of Sunderland.

Bradford, Yorks.—City Council recommended to approve supplementary estimate of £1,750 for scheme to increase storage capacity of sludge lagoon at North Bierley sewage disposal works.

Colne Valley, Yorks.—West Riding E.C. have approved scheme for drainage at Colne Valley High School. Estimated cost £6,593.

Freebridge Lynn, Norfolk.—R.D.C. to prepare scheme for the provision of a plant to take sewage from the Oak Estate, Roydon.

Glasgow.—Highways Committee are to approach the Department of Health for Scotland for Authority to proceed with the modernisation at Dalmarnock Sewage Works. Estimated cost £3m.

Guisborough, Yorks.—U.D.C. giving further consideration to proposed sewerage schemes for Upleatham (£7,800), Yearby (£10,000) and Mount Pleasant (£3,570). The Council's consulting engineers are D. Balfour and Sons, 145 Pilgrim Street, Newcastle upon Tyne.

Peterborough.—City Council recommended to instruct J. D. and D. M. Watson, consulting engineers, 67 Tufton Street, London, S.W.1, to submit proposals for extensions to sewerage works, initially to cater for a population of 75,000 but with provision for extension to 87,000 if required on contract stage.

Scunthorpe, Lincs.—B.C. recommended to approve in principle scheme for drainage of Normanby Road.

Wanstead and Wodford, Essex.—B.C. to prepare plans for the reconstruction of the main sewerage system in the borough.

Wolverhampton, Staffs.—B.C. have approved the reconstruction of the digestion system at Barnhurst works. Estimated cost £11,000.

STREET LIGHTING

Gateshead, Dur.—B.C. to borrow £3,863 for the provision of street lighting on the Leam Lane estate (section B).

Meltham, Yorks.—U.D.C. to apply for sanction to borrow £1,413 for street lighting conversion scheme involving 108 lamps in the district during 1960-61.

Morecambe, Lancs.—B.C. to apply for sanction to borrow £6,684 for replacing electric cable for street lighting on the promenade from Skipton Street to Clarence Street and from the Town Hall to Elm Grove.

Southampton.—B.C. recommended to apply for sanction to borrow £5,167 for the installation of group A lighting in Orchard Place and Queens Terrace and group B in Brookwood Road, Parkside Avenue, Gover Road and The Grove, Sholing.

Stoke-on-Trent, Staffs.—City Council recommended to approve street lighting scheme for Winchester-Preston Trunk Road from Hanford to Trentham. Estimated cost £10,257.

Swinton and Pendlebury, Lancs.—B.C. recommended to apply for sanction to borrow £3,715 for East Lancashire road lighting.

Wellington, Salop.—U.D.C. have approved scheme installation of group A lighting along the Dawley Road from Bayley Road to John Broad Avenue, and from the Cock Island along Mill Bank, King Street and Whitechurch Road to North Road. Estimated cost £5,310.

Wigan, Lancs.—B.C. to spend £2,843 on street lighting in Alexandre Crescent, Tunstall Lane, Marcus Avenue, Kingsmede, Bold Street and St. Andrew's Drive.

CONTRACTS

Full details of the Contracts marked * will be found in our Advertisement Columns.

BUILDING AND DECORATING

(See also Housing Schemes)

***Aberdare, Glam.**—Erection of bus shelter and extension to cemetery lodge for U.D.C. Deposit £2. Tenders by Sept. 2.

Abertillery, Mon.—Conversion of Coed Iorwg House into six self-contained units at accommodation for U.D.C. Documents from John Evans, clerk of the Council, Council Offices, Abertillery. Deposit £2 2s. Drawings seen, by appointment only, at the office of Reginald H. Eke, engineer and surveyor, Council Offices, Alexandra Road, Abertillery. Tenders by Aug. 29.

Abingdon, Berks.—Provision of bathrooms and other alterations to seven houses at Stevenston Road, Drayton, for R.D.C. Documents from the Housing Manager, Council Offices, 60 Bath Street, Abingdon. Deposit £2. Tenders by Sept. 5.

Armagh.—Erection of an additional classroom (including heating and electrical installations) to Killylea County Primary School for Co. E.C. Documents from G. D. Taylor, architect, 27a English Street, Armagh. Deposit £5. Tenders by Sept. 13.

Armagh.—Design, supply, fabrication and erection of structural steelwork for a factory extension for Ministry of Commerce. Documents from Room 14, Chichester House, 64 Chichester Street, Belfast. Tenders by Aug. 31.

Bath.—Public convenience at Park Lane for City Council. Applications to the City Planning Officer and Architect, 7 North Parade Buildings, by Aug. 20. Deposit £2 2s.

***Bath.**—Construction of additional dining/kitchen and workshop accommodation at Westhill Secondary Modern Boys' School, for City Council. Apply by Aug. 27. Deposit £2 2s.

***Bedford.**—Newham baths improvement, contract 3, for B.C. Deposit £2 2s. Tenders by Sept. 7.

Berkhamsted, Herts.—Erection of lock-up garages at the following housing estates, for R.D.C.: (a) Hedgeside, Potten End—16 garages; (b) Bromley, Long Marston—10 garages. Documents from the Surveyor, Boxwell House, 275 High Street, Berkhamsted. Tenders by Sept. 19.

Bridge-Blean, Kent.—Conversion of 27 The Grove, Barham, into two flats for R.D.C. Documents from the Engineer and Surveyor, Council Offices, 41 Old Dover Road, Canterbury. Tenders by Sept. 7.

Bridge-Blean, Kent.—Internal decoration of certain parts of the Council offices for R.D.C. Documents from the Engineer and Surveyor, 41 Old Dover Road, Canterbury. Tenders by Sept. 7.

Bridgnorth, Salop.—Internal replumbing of two houses at Vicarage Lane, Highley, and four houses at Weston for R.D.C. Documents from the office of the Surveyor, Westgate, Bridgnorth. Tenders by Aug. 27.

***Cambridge.**—Extensions and alterations to Hobbs pavilion for City Council. Deposit £2. Tenders by Sept. 19.

Cardiff.—Following works for City Council: (a) Glantaf County Secondary School—proposed canoe stores and work shop; (b) Greenhill Open Air School—proposed alterations to dining room facilities. Documents from the City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff. Deposit £2 2s. each, cheques payable to Corporation. Tenders by Aug. 26.

Cardiff.—Following works for City Council: Howardian High School for Boys, Colchester Avenue—new bicycle storage and playing field equipment store. Documents from the City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff. Deposit £2 2s. (cheques payable to the Corporation). Tenders by Aug. 30.

***Cardiff.**—Steelwork at Teacher Training College, Cymoed, for City Council. Deposit £2 2s. Tenders by Sept. 14.

***Cardiff.**—Precast concrete work for Teacher Training College, Cymoed, for City Council. Deposit £2 2s. Tenders by Sept. 14.

***Cardiff.**—Erection of Teacher Training College, Cymoed, for City Council. Deposit £2 2s. Tenders by Sept. 29.

***Cardiff.**—Erection of 219 lock-up garages and site works, contracts 1 to 8, for City Council. Deposit £2 2s. each. Tenders by Sept. 13.

Ceiriog, Denbighs.—Removal of 100 scullery sinks and draining boards and the provision

and fixing of twin combined sinks and drains at Rhosywaen, Chirk, Tanybryn, Pontfadog and Erw-Wladys, Glynceiriog, for R.D.C. Documents from R. W. Aubrey, surveyor to the Council, Council Offices, Chirk. Deposit £2 2s. Tenders by Sept. 3.

Chadderton, Lancs.—Erection of six lock-up garages on the Lower Bare Trees housing site for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Chadderton. Tenders by Aug. 29.

Chelmsford, Essex.—Erection of a 4½in. brick wall, 6ft. high and approximately 377yd. in length at crematorium for B.C. Bricks and coping to be provided by the Corporation. Documents from the Borough Engineer and Surveyor, Municipal Offices, Coval Lane, Chelmsford. Deposit £2 2s. Tenders by Aug. 29.

***Chislehurst and Sidcup, Kent.**—New greenhouse at The Glade, for U.D.C. Apply by Aug. 29.

Cirencester, Glos.—Repairs and improvements to 11 houses at Quenington for R.D.C. Documents from Pyle and Saint, architects, Thomas Street House, Cirencester. Deposit £2 2s. Tenders by Sept. 10.

Colwyn Bay, Denbighs.—Interior decoration of the pier pavilion for B.C. Documents from H. Wilman, borough engineer and surveyor, Whalley Range, Lansdowne Road, Colwyn Bay. Tenders by Sept. 1.

Crayford, Kent.—Replacement of baths, sinks, kitchen and bathroom windows, and the installation of lavatory basins in 970 pre-war dwellings for U.D.C. This work is required to be carried out in the shortest possible time, and contractors should give full information concerning details of previous works, total number of tradesmen who would be employed, etc., and the estimated time required to complete the contract. Applications to the Engineer and Surveyor, Town Hall, Crayford, Kent, by noon, Aug. 31.

Darlington, Staffs.—Part decoration of the exterior and interior of the Public Baths, Victoria Road, for U.D.C. Documents from the Engineer and Surveyor, Victoria Park, Darlington. Tenders by Sept. 12.

Devonshire.—Erection of two domestic subjects rooms and extensive internal alterations to existing buildings at the Primary and Secondary Schools, Axminster, for C.C. Applications to County Architect, 97 Heavitree Road, Exeter, by Aug. 27. Deposit £3 3s., cheque payable to C.C.

Dover.—Repairs and improvements to 51 Dour Street for B.C. Documents from the Borough Engineer, Brook House, Dover. Tenders by Sept. 5.

East Sussex.—Alterations, adaptations and repairs to a drill hall to form a new civil defence training centre at Hailsham, for C.C. Applications to the County Architect, County Hall, Lewes, by Aug. 26. Tenders by Sept. 3.

Edinburgh.—Construction of a portal-framed brick and concrete building, with a floor area of 4,500 super. ft. and a 9in. brick boundary wall of 438 super. yd., at Dumbryden Road, Longstone, for City Council. Documents from City Engineer, 329 High Street, Edinburgh. Tenders by Sept. 12.

Essex.—Following for C.C.: (1) Civil Defence Headquarters, Danbury Park, near Chelmsford—provision of oil-fired central heating (estimated cost £5,800); (2) Great Bardfield County Primary School—kitchen, in traditional construction (estimated cost £4,500). Separate applications to H. Conolly, county architect, County Hall, Chelmsford, by Aug. 20.

Fireshire.—Erection of new nursery school, Leslie (approximately 3,000 sq. ft.), for C.C. Applications to the County Clerk, Cupar, by Aug. 27.

Glamorgan.—Alterations at the Porth Magistrates' Courts for Magistrates' Courts Committee. Documents from the Porth Police Station, or at the County Police Architect's Department, Bridgend. Deposit £2 2s. Tenders by Aug. 29.

***Hackney.**—Conversion of houses into self-contained flats for B.C.

Hamshire.—Kingsworthy, Morton House Old People's Home—adaptations and additions to a stable block to form living accommodation for C.C. Applications to the County Architect, The Castle, Winchester, by Sept. 1. Deposit £1 1s. (cheques payable to the County Treasurer).

Harrington, Northants.—Complete repainting of an 80,000-gallon structural steel water tank supported on a structural steel tower 60ft. high and situated at Harrington near Kettering, contract 454, for Mid-Northamptonshire Water Board. Documents from L. H. Brown, chartered civil engineer, Cliftonville, Northampton. Tenders by Sept. 6.

***Harrow, Middx.**—Erection of public conveniences for B.C. Deposit £2. Tenders by Sept. 27.

Hereford.—Painting work in sections of the following for City Council: (1) Butter Market; (2) Cattle Market (Attested Cattle Pens);

(3) Market Tavern (external); (4) abattoir. Documents from City Engineer, Town Hall, Hereford. Tenders by Aug. 27.

Huntingdonshire.—St. Neots C.P. Mixed School—conversion of the existing domestic science room into a dining room and scullery for Co. E.C. Documents from S. M. Holloway, county architect, County Buildings, Huntingdon. Tenders by Sept. 1.

Huntingdonshire.—Proposed three-bay fire station, Ramsey, for C.C. The building will be a single-storey reinforced concrete-framed structure on piles with infill panel construction of brickwork built from ground beams. The concrete frame and piled foundation will be by nominated sub-contractors. Applications to S. M. Holloway, county architect, County Buildings, Huntingdon, by noon, Aug. 29.

Ilkley, Yorks.—Construction of two buildings, comprising public conveniences, at the following for U.D.C.: (i) Near the Cow and Calf Rocks; (ii) Riverside Gardens, near Old Bridge. Documents from the office of the Engineer and Surveyor, Chantry Drive, Ilkley. Tenders by Aug. 26.

Inverness-shire.—Alterations and additions to Newtonmore Primary School for C.C., the works comprising concrete and brick, carpenter and joiner, plumber and drainage, plaster, painter and electrical works. Applications to County Architect, The Castle, Inverness, by Aug. 20.

Lancashire.—Construction of public conveniences at Liverpool Road for U.D.C. Deposit £1 1s. Tenders by Sept. 3.

Isle of Wight.—Erection of two classrooms and minor alterations at Nine Acres Infants' School, Newport (floor area of new work approximately 1,200 super. ft.), for C.C. Applications to the County Architect, County Hall, Newport I. of W., by Aug. 22. Deposit £2 2s., payable to C.C. Tenders by Sept. 21.

King's Lynn, Norfolk.—Demolishing an existing public convenience and supplying materials and the erection of a new public convenience, with connections to an existing sewer at South Quay, for B.C. Floor area of new public convenience to be 52.48 super. ft. or thereabouts. Documents from the Borough Engineer, Clifton House, 17 Queen Street, King's Lynn. Deposit £2 2s. Tenders by Aug. 26.

Lancashire.—Following for C.C.: Conversion in traditional construction of school meals kitchen to metalwork room, including services and finishes at Hindley Green County Secondary School; alterations and adaptations at Garstang Petty Sessions Divisional Court to form new offices, waiting-room, toilets, etc., including drainage, services and finishes; extensions and alterations at Huyton Child Guidance Clinic to form classroom and toilets. Work is in traditional construction, including flat felted roof, services and finishes. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by Aug. 22.

Leeds.—Exterior painting at the Jewish Herzl Moser Hospital, Leopold Street, for Management Committee. Documents from the Superintendent Engineer, St. James's Hospital, Leeds, 9. Deposit £1 1s. Tenders by Aug. 26.

Lindsey.—Erection of a proposed dining/assembly hall and kitchen of approx. 3,500 super. ft. floor area at Skegness Junior School for C.C. Documents from A. Ronald Clark, county architect, County Offices, Lincoln. Tenders by Sept. 7.

Liverpool.—Erection of cleansing depot, Soho Square, for City Council. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Deposit £2, payable City Treasurer. Tenders by Sept. 16.

Mablethorpe and Sutton, Lincs.—Lavatory blocks for U.D.C. Deposit £2 2s. Tenders by Sept. 7.

Malvern, Worcs.—Alterations and extensions to Priory Park swimming pool for U.D.C. Deposit £5 5s. Tenders by Sept. 16.

Manchester.—Alterations to police headquarters, South Street, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Aug. 31.

Manchester.—Erection of Ducie Secondary Technical School, Moss Side, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Aug. 31.

Manchester.—Erection of shops, offices and flats at the Civic Centre, Wythenshawe, for City Council. Documents from the City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Aug. 30.

Manchester.—Alterations and extensions to Summerseat House Special School, Bury, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Aug. 31.

Montgomeryshire.—Adaptation at Newtown Fire Station for C.C. Documents from Clerk of the County Council, County Offices, Welshpool. Tenders by Aug. 29.

Northampton.—Demolition of the present Kingsthorpe Branch Library and Police

Station, and erection of new premises on the same site in Harborough Road for B.C. Applications to the Borough Architect, Guildhall, Northampton, before Aug. 22. Deposit £2 2s., cheque payable to Corporation.

Northleach, Glos.—Works of improvement and repair to Dutton's Almshouses for Town Trustees. Documents from Kenneth B. McKenzie, architect, Bibury, Cirencester. Tenders by Sept. 5.

Northumberland.—Demolition and reconstruction of 833 lin. yd. of 9ft. high masonry wall, brick forecourt walls and gas governor house at St. Nicholas' Hospital, Salters Road Gosforth B.6340, for C.C. Documents from the County Surveyor, Phoenix House, Queen Street, Newcastle upon Tyne, 1. Tenders by Aug. 29.

Northumberland.—Construction of a four-bay lock-up garage, workshop and stores block with all services, at Haugh Head, Wooler, for C.C. Documents from the County Surveyor, Phoenix House, Queen Street, Newcastle upon Tyne, 1. Tenders by Aug. 29.

Northumberland.—Construction of a two-bay lock-up garage and workshop block with all services on Station Road, Belford, for C.C. Documents from the County Surveyor, Phoenix House, Queen Street, Newcastle upon Tyne, 1. Tenders by Aug. 29.

Nottingham.—Cleaning and painting at the following buildings for Education Committee: Internal and external—Clifton Youth Club, Southchurch Drive, Clifton estate; Henry Whipple School Nursery, Padstow Road, Bestwood estate; Sycamore Youth Club, Lilac Street. Internal—Croft Nursery School kitchen, St. Peter's Street, Radford; Mundella School kitchen, Collygate Road; St. Matthias' kitchen, St. Matthias' Road, Carlton Road; St. Teresa's R.C. School kitchen, Kingsbury Drive, Aspley. External—Canaan Street premises, Broad Marsh; Clarendon College (Old) Clarendon Street; Clifton Hall School (part), Clifton Village; The Dale School, Edale Road, Sneinton Dale; Ellis School kitchen, Bar Lane, Old Basford. Documents from the Education Office (Sites and Buildings Department), Exchange Buildings, Smithy Row, Nottingham. Deposit £1 each. Tenders by Sept. 5.

Omagh, Tyrone.—Erection of six lock-up garages at Craigavon Park, Fintona, for R.D.C. Documents from the R.D.C. Offices, Lisnamallard, Omagh. Deposit £2 2s. Tenders by Aug. 31.

Portsmouth, Hants.—Construction of a pumping station at Great Salters Lake for City Council. Work consists of a wet well in the side of the lake with an underground switchgear chamber behind it, the installation of two pumps of 1,800-2,200 g.p.m. capacity each and ancillary work. The pumps will be installed by a sub-contractor. Documents from City Engineer, 1 Clarence Parade, Portsmouth. Deposit £2. Tenders by Sept. 30.

Pudsey, Yorks.—Stripping, felting and retiling of two pairs of houses for B.C. Documents from the Borough Surveyor, Town Hall, Pudsey. Tenders by Aug. 29.

***Richmond, Surrey.**—Rebuilding of Corporation depot, phase 1, for B.C. Deposit £5 5s. Tenders by Sept. 22.

Rothwell, Yorks.—Erection of prefabricated branch library 30ft. by 18ft. 6in., at the end of Carlton Lane, Lofthouse, for U.D.C. Documents from Building Superintendent, Civic Buildings, Rothwell. Deposit £2 2s. Tenders by Sept. 2.

***Royton, Lancs.**—Modernisation of public baths and provision of public conveniences, Park Street, for U.D.C. Deposit £2 2s. Tenders by Sept. 6.

Rushden, Northants.—Demolition work and the erection of a store 80ft. by 25ft. at Rushden Hall for U.D.C. Documents from the Engineer and Surveyor, Council Buildings, Rushden. Tenders by Aug. 31.

Sale, Ches.—Erection of two brick pavilions and ancillary work at: (a) Crossford Bridge; and (b) Moor Nook (approx. 1½ miles distant), for B.C. The erection of both pavilions, etc., shall be conjoined to form one contract. Documents from the Borough Engineer, Town Hall, Sale. Deposit £2 2s. Tenders by Sept. 9.

Samford, Suffolk.—Application of waterproof cement paint to eight houses at Stutton, and seven houses at Stratford St. Mary, for R.D.C. Documents from the Housing Manager at the Council Offices, 25 London Road, Ipswich. Tenders by Aug. 31.

Scunthorpe, Lincs.—Erection and completion of a Methodist church and church buildings at Scunthorpe, including the demolition of the existing buildings on the same site. Documents from Fisher, Hollingsworth and Partners, chartered architects, quantity surveyors, 23 Lowgate Hall. Deposit £2 2s. (cheque). Tenders by Sept. 3.

Skipton, Yorks.—Painting 25ft. steel street lighting columns in two groups for U.D.C.:

(a) 36 in central area; (b) 156 in Broughton Road, Gargrave Road, Otley Road and Keighley Road. Documents from the Engineer and Surveyor, Town Hall, Skipton. Tenders by Aug. 24.

Smethwick, Staffs.—Internal redecoration and minor repairs at the Hollies Children's Home for B.C. Written applications to the Borough Engineer and Surveyor, Council House, Smethwick, 40. Deposit £2 2s. (cheques payable to Borough Treasurer). Tenders by Sept. 14.

South Shields, Dur.—Erection of a new x-ray department adjacent to and linked with the main hospital corridor at Ingham Infirmary for District Hospital Management Committee. The total floor area of this single-storey building will be approx. 5,700 sq. ft. Applications to the Group Secretary, Ingham Infirmary, South Shields, by Aug. 20.

Staffordshire.—Following for C.C.: (Holding 2) Cocknag scheme—new drainage works; (5) Cocknag scheme—new drainage works; (25) Yarlet scheme—new bathroom, general improvements, etc.; (6) Yarlet (2 scheme)—new bathroom, new dairy, etc. Applications to the County Estate Agent, County Buildings, Martin Street, Stafford. Deposit £1 1s. Tenders by Sept. 2.

Stepney.—Martineau Street housing scheme, stage 1 (75 dwellings and two shops) for B.C.: (1) Thermoplastic tile flooring (3,250 super. yd.); (2) frostproof wall tiling (380 super. yd.); and (3) asphalt roofing (1,170 super. yd.); asphalt paving (580 super. yd.); and tarmacadam paving (260 super. yd.); the areas indicated being approximate. Applications to Howes and Jackman, architects, 1 Verulam Buildings, Gray's Inn, W.C.1, by Aug. 22. Tenders by Sept. 12.

Tavistock, Devon.—Conversion of existing buildings and ancillary works to provide a slaughterhouse at the Old Gas Works, Westbridge, for U.D.C. Documents from the Surveyor, The Council Chambers, Drake Road, Tavistock. Deposit £2 2s., payable to U.D.C. Tenders by Sept. 12.

***Tottenham, Middx.**—Display boarding in schools for B.C. Tenders by Sept. 1.

Sunderland, Dur.—Internal and external painting to West and Southwick branch libraries, for B.C. Documents from Borough Architect, Grange House, Stockton Road, Sunderland. Tenders by Aug. 24.

Thurrock, Essex.—Proposed covered swimming pool and public hall, for U.D.C. Applications to C. S. H. Hawkes, engineer and surveyor, Council Offices, Palmer's Avenue, Grays, Essex, by first post Aug. 29. A list of works carried out by the applicant, comparable to the project under consideration, should accompany the application.

Tiverton, Devon.—Exterior painting of dwellings, etc., as follows for B.C.: Sixty-four houses at Council Gardens; four houses at Seven Crosses; three houses at Park Road and Barton Road; two shops and flats at Beech Road; five bungalows at Broad Lane; 22 garages at Sycamore Road; 12 garages at Cotteylands. Documents from the Housing Manager, 7 St. Peter Street, Tiverton. Tenders by Sept. 3.

Tiverton, Devon.—Exterior painting at the Tiverton Market, for B.C. Documents from Borough Surveyor, Town Hall, Tiverton. Tenders by Sept. 3.

Watford, Herts.—Erection of a social centre on a site at Oxhey Place, South Oxhey, for R.D.C. Applications to S. A. Nicholson, clerk to the Council, Council Offices, Wynyard House, 99 Langley Road, Watford, by Aug. 29. Deposit £2 2s.

West Riding.—Extensive minor repairs, prior to painting and decorating, at the Adwick Park Junior School, Windmill Balk Lane, Woodlands, near Doncaster, for C.C. Documents from the Divisional Education Officer, County Area Offices, Station Road, Doncaster. Tenders by Aug. 25.

West Suffolk.—Erection at Place Farm, Camps Road, Haverhill, of a police station and court, floor area approx. 7,500 sq. ft., the work to include the demolition of existing buildings, erection of fencing and laying of pavings, for Standing Joint Committee. Applications to the County Architect, 13 Westgate Street, Bury St. Edmunds, by Aug. 22. Deposit £2 2s., cheques payable to C.C. Tenders by Sept. 21.

West Sussex.—Two classroom instalment of new school at Fernhurst, near Haslemere (job No. 6534) for C.C. Applications to the County Architect, County Hall, Chichester, by Aug. 22.

Wisbech, Cambs.—Alteration and extension of the Council Offices, Church Terrace, for B.C. Documents from the Borough Engineer, Church Terrace, Wisbech. Deposit £1. Tenders by Sept. 7.

Wokingham, Berks.—Formation of a tipping bay involving the provision and consolidation of 800 cu. yd. filling, and the construction of a tank 8ft. by 5ft. by 8ft. deep in concrete blocks, adjoining the New Bath Road half

a mile west of Twyford, for R.D.C. Documents from the Chief Engineer, Council Offices, Shute End, Wokingham. Tenders by Aug. 31.

Worsley, Lancs.—Harriet Street Depot, proposed temporary offices, for U.D.C., including the supply and erection of a timber building 36ft. 6in. by 12ft. 6in. (including partitions). Documents from L. T. Broome, engineer and surveyor, Town Hall, Walkden. Deposit £2 2s. payable to U.D.C. Tenders by Sept. 2.

Worsley, Lancs.—Extensions to town's yard, Chestnut Avenue, Walkden, for U.D.C., including the erection of the following buildings: (a) Two-storey garage block and store 11ft. long by 31ft. wide by 25ft. high; (b) single-storey repair shop 44ft. long by 36ft. wide by 25ft. high; (c) storage buildings 77ft. long by 27ft. wide by 17ft. high; (d) alterations to existing buildings. Documents from L. T. Broome, engineer and surveyor, Town Hall, Manchester. Deposit £2 2s. Tenders by Sept. 22.

CLOTHING AND TEXTILES

Glasgow.—Following for City Council: (a) Cutting, making-up and trimming the cloth supplied by the corporation in respect of 810 uniform suits with extra trousers; (b) supplying 790 uniform caps. Samples may be inspected and forms of offer may be obtained at the Lighting Department, 20 Trongate, Glasgow. Tenders by Sept. 23.

DEMOLITION

Cheshire.—Demolition of premises 105-129 Stockport Road, Cheadle, for C.C. Documents from the County Surveyor, County Surveyor's Department, Backford Hall, near Chester. Deposit £2 2s. (cheques payable to the Council). Tenders by Sept. 2.

Congleton, Ches.—Demolition of properties 2-22 Astbury Street for B.C. Documents from the office of the Borough Engineer and Surveyor, Market Place, Congleton. Tenders by Aug. 27.

Croydon, Surrey.—Demolition of the Free Christian Church, Wellesley Road, for B.C. The building includes a considerable quantity of stonework, etc. Documents from the Borough Engineer and Surveyor, Town Hall, Croydon. Tenders by Aug. 29.

Essex.—Following for C.C.: Demolition of property situated on the south-west side of Hatfield Bridge, Hatfield Peverel, and the erection of approximately 300 lin. yd. fencing. The buildings to be demolished are known as Hatfield Mill House, Hatfield Mill and Hatfield Mill Cottage and abut immediately on to the London-Great Yarmouth Trunk Road, A.12. Timber and barbed wire fencing field and wicket gates are to be erected on the adjoining land. Documents from H. J. Berry, county surveyor, Highways Department, Old Court, Chelmsford. Tenders by Aug. 29.

Halesowen, Worcs.—Demolition of 37-59 and 63-68 New England, Blackheath, for B.C. Deposit £2 2s. Tenders by Sept. 3.

Hampshire.—Demolition of Kingsclere Workhouse, which housed approx. 100 patients, for C.C. The works include for the retention of valuable materials by the contractor of timber, slates, lead, bricks, etc. Applications to H. N. Jenner, county surveyor, The Castle, Winchester, by Aug. 20.

Heywood, Lancs.—Demolition of 4, 6 and 8 Hornby Street, Longford Street Joinery Works and Palatine Leather Works, Longford Street, for B.C. The work includes complete demolition, removal of all materials and clearing of the sites. Documents from the Borough Engineer and Surveyor, Municipal Buildings, Heywood. Deposit £2 2s. Tenders by Sept. 19.

Hitchin, Herts.—Demolition of 30 brick and slate two- and three-storey houses, together with outbuildings, garden boundary walls, fences, etc., between 23 and 61 and 71 and 89 Stevenage Road, for U.D.C. Documents from the Surveyor, Council Offices, Brand Street, Hitchin. Tenders by Sept. 6.

Salford, Lancs.—Ellor Street clearance area No. 5, for City Council. Tenders by Aug. 29.

Sandown-Shanklin, I. of W.—Demolition and clearance of a single cell steel clad refuse destructor with steel chimney and steel-framed covering building at the refuse tip, Sandown, I. of W., for U.D.C. Documents from Surveyor's Offices, Town Hall, Sandown, I. of W. Tenders by Aug. 27.

Swansea.—Demolition of 70 houses or ruins in the Llandore, Dyffarth and Mount Pleasant areas, for B.C. Documents from the Borough Engineer and Surveyor, St. Faith's Hall, St. Helen's Road, Swansea. Deposit £2. Tenders by Sept. 1.

Maidstone, Kent.—Demolition of Mote House, for B.C. Tenders by Sept. 12.

Witney, Oxon.—Demolition of Sherwood Row, Eynsham, for U.D.C. Documents from the Engineer and Surveyor, 36 Market Square, Witney. Tenders by Aug. 24.

***Wolverhampton, Staffs.**—Demolition of retail market hall, North Street, for B.C. Deposit £2 2s. Tenders by Aug. 31.

***Wood Green.**—Demolition of trench shelters for B.C. Tenders by Sept. 14.

ELECTRICAL

Cardiff.—Complete electrical installation in Bryn-y-Don Approved School, Dinas Powis, for City Council. Documents from the City Surveyor, City Hall, Cardiff. Deposit £2 2s., cheques payable to Corporation. Tenders by Aug. 25.

Dartford, Kent.—Supply and fitting of a new electrically operated rapid delivery commercial pump, 230/250-V A.C. single phase, fitted with a limiting device, for R.D.C. Tenders addressed to the Engineer and Surveyor, White Oak, London Road, Swanley, Kent, marked "Tenders for Petrol Pump," but bearing no other mark, by Aug. 31.

Hawick, Roxburghs.—Complete renewal of the electrical services at Hawick Cottage Hospital for Board of Management. Applications to the Group Secretary and Treasurer, Borders Hospitals Board of Management, Newstead, Melrose, by Aug. 20.

Herefordshire.—Renewal of the electrical installation at Ross Cottage Hospital, Gloucester Road, Ross-on-Wye, for Herefordshire Hospital Management Committee. Documents from the Sectional Superintendent Engineer, General Hospital, Hereford. Tenders by Sept. 12.

Hoyland Nether, Yorks.—Electrical installation in 200 existing houses, Coronation Road site for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Hoyland. Tenders by Aug. 29.

Manchester.—Electrical installation to sports pavilion at Hough End playing fields for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Aug. 24.

Manchester.—Electrical installations to the following for City Council: Contract 242E Langley, 15 houses and flats. Documents from the Director of Housing, Town Hall, Manchester. 2. Tenders by Aug. 31.

FENCING

Godalming, Surrey.—Erection of rear fences at 50 houses on the Ockford Ridge estate, Godalming, and 50 houses on the Elizabeth Road estate, Farncombe, for B.C. Documents from the Borough Engineer and Surveyor, Branksome, Filmer Grove, Godalming. Tenders by Sept. 2.

***Letchworth, Herts.**—Chain link fencing for U.D.C. Deposit £2 2s. Tenders by Sept. 2.

Newtownabbey, Antrim.—Supply of bent arm enclosure posts for boundary fencing for Newtownabbey Hospital Management Committee. Documents from Secretary, Whiteabbey Hospital, Newtownabbey, Co. Antrim. Tenders by Aug. 24.

***Rayleigh, Essex.**—Chain link fencing for U.D.C. Tenders by Sept. 1.

***Stoke-on-Trent, Staffs.**—Boundary fencing for City Council. Deposit £1. Tenders by Sept. 7.

Wanstead and Woodford, Essex.—Supply and erection of approximately 180 yd. 2ft. 9in. high exposed aggregate concrete palisade fencing to perimeter of Christchurch recreation ground for B.C. This section forms part of four-year programme. Documents from the Borough Engineer, Municipal Offices, E.18. Deposit £2. Tenders by Aug. 26.

GAS AND WATER SUPPLY

Bedworth, War.—Construction of a filter house and reinforced concrete aeration tank at Bedworth waterworks for North East Warwickshire Water Board. Documents from G. Ashton, engineer and manager, Pool Bank Street, Nuneaton. Deposit £2 2s. Tenders by Sept. 2.

***Border, Cumb.**—Crew Fell water supply extension for R.D.C. Deposit £2 2s.

***Bicester, Oxon.**—Water main for U.D.C. Deposit £2 2s. Tenders by Sept. 27.

Cardiff.—Llandegfedd water scheme for City Council, including the construction of the Llandegfedd impounding reservoir and ancillary works, the main feature being an earthen embankment 120ft. high and 1,150ft. long. Applications to Rofe and Rafferty, consulting engineers, 9 Brewer's Green, London, S.W.1, before Aug. 22, giving details of their experience on similar projects.

***Dursley, Glos.**—Water main extension to Bencombe Uley, for R.D.C. Deposit £2 2s. Tenders by Sept. 13.

East Lothian.—Laying and jointing of a pipeline 4in. in diameter for a distance of 1,010 lin. yd., for Water Board. Documents from G. H. Hill and Sons (Manchester), civil engineers, 51 Mosley Street, Manchester, 2. Deposit £5 5s. Tenders by Sept. 17.

Harrogate, Yorks.—Painting of Ripley Bow String pipe bridge at Ripley, near Harrogate,

for Claro Water Board. Documents from James B. Pooley, engineer to the Board, Claro Water Board, Municipal Offices, Harrogate. Tenders by Sept. 12.

***Huntingdon.**—Water mains at Great Stukeley, for R.D.C. Deposit £2 2s. Tenders by Sept. 14.

***Middlesex.**—Sadlers mill stream diversion scheme for Lee Conservancy Catchment Board. Deposit £10 10s. Tenders by Sept. 19.

***Norwich.**—Laying water main for City Council. Tenders by Aug. 29.

***Pickering, Yorks.**—Water main extensions, contract 2, for U.D.C. Deposit £5 5s. Tenders by Sept. 3.

Swansea.—Exploratory shaft at Windmill Hill, Bonymaen, for B.C., which involves the excavation of a shaft 30ft. to 40ft. deep upon the site of a proposed service reservoir, to give access to underground coal workings. Documents from the Borough Water Engineer and Manager, Guildhall, Swansea. Deposit £1. Tenders by Sept. 7.

***Wantage, Berks.**—Chain Hill reservoir No. 2 for Thames Valley Water Board. Deposit £5 5s. Tenders by Sept. 15.

HEATING AND VENTILATING

Breconshire.—Mechanical installations (heating, ventilating and water supply) at new Council Chamber, Brecon, for C.C. The building will comprise Council Chamber, public gallery, anteroom, committee room, chairman's room, eight offices, boiler house, etc. The installation will comprise systems of central heating with oil-fired boilers, domestic hot and cold water supplies and plenum ventilation. Applications to County Architect, Rhyl Offices, Brecon, by Aug. 31.

Cumberland.—Installation of a low pressure hot water central heating system at Penrith Police Station, Hunter Lane for C.C. Documents from H. R. Clark, acting county architect, 15 Portland Square, Carlisle. Tenders by Aug. 30.

Inverness-shire.—Heating and electrical work in connection with proposed new county buildings at Inverness for C.C. Applications to R. Wallace, county clerk, County Buildings, Inverness, by Aug. 20.

Manchester.—Heating installation at Victoria Park Secondary School for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Aug. 31.

HOUSING SCHEMES

Birkenhead, Ches.—Eighty-three houses and 35 lock-up garages at Woodchurch estate, contract 27, for B.C. Documents from the Borough Architect, 3 Conway Street, Birkenhead. Deposit £2 2s. Tenders by Sept. 1.

***Birmingham.**—Contracts 704 and 714 for City Council, by Aug. 23. Deposit £2 2s. each. Tenders by Sept. 23.

Boldon, Dur.—Erection of 102 three-bedroom type houses on the Wellands Lane housing site (section 3), Whitburn, for U.D.C. Documents from the office of J. T. Edmondson, surveyor, Council Offices, East Boldon. Deposit £5. Tenders by Sept. 27.

***Buckley, Flint.**—Housing development for U.D.C. Deposit £5 5s. Tenders by Sept. 23.

Cardiff.—Construction of superstructure only of the following 70 dwellings on existing foundations in three contracts for City Council: (Group 1) 46 single-bedroom flats in one-, two- and one three-storey blocks, Shaw Close, Llanrumney; (2) two three-bedroom houses, Hazlett Close, Llanrumney; (3) 22 single-bedroom flats in two two-storey blocks, Maitland Place, Grangetown. Documents from the City Architect's Department, Municipal Offices, Greyfriars Road, Cardiff. Deposit £2 2s. each. Tenders by Sept. 13.

***Cardiff.**—One hundred and ninety-four dwellings in three groups for City Council. Deposit £2 2s. each. Tenders by Sept. 13.

Coleraine, Londonderry.—Erection of 22 houses and eight garages at Claragh, Kilrea, for R.D.C. Documents from T. J. Dudley Lewis, chartered quantity surveyor, 22 New Row, Coleraine. Deposit £5 5s. Tenders by Sept. 3.

Cookstown, Tyrone.—Seventy-nine houses and 10 garages at Monrush, for U.D.C. Documents from the Town Surveyor, Town Hall, Burn Road, Cookstown. Tenders by Sept. 5.

Cornwall.—Erection of Trusteel bungalows of varying designs for W. D. Welch (Holdings), Ltd., on the following estates: Twenty bungalows—Green Lane estate, Penryn; 20—Trescobas Manor estate, Falmouth; 40—Moresk estate, Truro. Tenders will be considered for each estate separately or for the three estates as a whole and there will be an opportunity for the successful tenderer to carry out the construction of roads and sewers for the estate on which he is to build. Documents from W. D. Welch (Holdings), Ltd., 2 The Square, Penryn. Tenders by Aug. 31.

***Dearne, Yorks.**—Twenty-four unity-type bungalows, etc., at Thurnscoe, for U.D.C. Deposit £2 2s. Tenders by Sept. 5.

Doncaster, Yorks.—Twenty-five unit two-storey block of aged persons' flatlets at Marlborough Avenue, Askern, contract 350, for R.D.C. Documents from J. A. Williams, surveyor, Nether Hall, Doncaster. Deposit £5 5s. Tenders by Sept. 16.

Doncaster, Yorks.—Twenty-five unit two-storey block of aged persons' flatlets at Queen Mary's Crescent, Kirk Sandall, contract 351, for R.D.C. Documents from J. A. Williams, surveyor, Nether Hall, Doncaster. Deposit £5 5s. Tenders by Sept. 16.

Dorking, Surrey.—Erection of two houses, 21 flats and six maisonnettes in three continuous sections in two, three and four storeys, respectively, to be built in crosswall construction with reinforced concrete retaining wall, roadworks and pavings at Hampstead Road, for U.D.C. Applications to F. G. Sutherland, Dorking Urban District Council, Pippbrook, Dorking, by Aug. 26, together with particulars of similar works previously undertaken, and names of architects from whom references may be obtained.

Dover.—Erection of 20 housing units, together with all site and ancillary works, on the north side of St. David's Avenue, Aycliffe, for B.C. Documents from the Borough Engineer, Brook House, Dover. Deposit £2 2s. Tenders by Sept. 9.

Downham, Norfolk.—Following for R.D.C.: Four houses and 12 bungalows, Denver; 10 bungalows, Feltham; six bungalows, Stoke Ferry; four bungalows, Wretham; four bungalows, Crimbleham. Documents from the Surveyor, Council Offices, London Road, Downham Market. Deposit £2 2s. (cheques payable to R.D.C.). Tenders by Sept. 12.

East Riding.—Two detached houses on the site of the new County Secondary School at Filey, for C.C. Documents from the County Architect, County Hall, Beverley. Deposit £2. Tenders by Sept. 20.

Farnham, Surrey.—Construction of one pair of three-bedroom houses at Baldreys, for U.D.C. Documents from the office of Gilbert and Hobson, architects, 69a Castle Street, Farnham. Deposit £2. Tenders by Sept. 16.

Farnham, Surrey.—Construction of 12 flats in two blocks and two pairs of semi-detached bungalows, at Lower South View and Bear Lane, for U.D.C. Documents from the office of A. J. and L. R. Stedman, architects, 36 South Street, Farnham. Deposit £2. Tenders by Sept. 16.

Farnham, Surrey.—Construction of two pairs of two-bedroom houses at Pine View Close, Radshot Lea, for U.D.C. Documents from office of Gilbert and Hobson, architects, 69a Castle Street, Farnham, Surrey. Deposit £2. Tenders by Sept. 16.

Fowey, Corn.—Supply and erection on a prepared site at the rear of Green Lane of the following for B.C.: Four one-bedroom type bungalows and 11 two-bedroom type bungalows. Tenderers are asked to submit detailed drawings and specifications for the types offered and Council are prepared to consider tenders for either traditional or non-traditional styles. The site layout may be inspected or further details obtained by arrangement with the Borough Surveyor, Borough Offices, Fowey. Tenders by Sept. 5.

Hereford.—Twenty-six dwellings in traditional construction, comprising five blocks of flats and three pairs of aged persons' bungalows, together with two blocks of garages and consequent site works, roads, sewers and water supply at Clehonger for R.D.C. Documents from the Clerk to the Council, Council Offices, 21 East Street, Hereford. Deposit £3 3s. by Aug. 24. Tenders by Sept. 23.

Hoyland Nether, Yorks.—Four two-bedroom type bungalows and four one-bedroom bungalows, together with external services at Hoyland Road for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Hoyland. Tenders by Aug. 29.

Huntingdonshire.—Following police housing for Standing Joint Committee: Sawtry—house, office and garage; Stilton—house, office and garage. Documents from S. M. Holloway, county architect, County Buildings, Huntingdon, on and from Aug. 19. Tenders by Sept. 12.

Huntingdon.—Erection of 12 bungalows and eight flats with associated roadworks at Brampton for R.D.C. Documents from the Surveyor, Montagu House, Huntingdon. Deposit £2 2s. Tenders by Sept. 14.

***Huntingdon.**—Bungalows, flats and roadworks for R.D.C. Deposit £2 2s. Tenders by Sept. 14.

Luton, Beds.—Erection and completion of 18 flats in three blocks, Lewsey Farm estate, for B.C. Documents from Borough Architect, Town Hall, Luton. Tenders by Sept. 22.

Magherafelt, Londonderry.—Erection of 10 dwellings at Culnady (2), for R.D.C. Documents from W. and M. Given, architects

and consulting engineers, 1 Waterside, Coleraine, or W. J. McKinney, clerk to Council, Council Offices, Magerafelt. Deposit £3 3s. Tenders by Aug. 25.

Manchester.—Erection of 370 dwellings at Blackley New Road, contract 294, for City Council. Documents from Director of Housing, Town Hall, Manchester, 2. Tenders by Aug. 31.

Northfleet, Kent.—Erection of 12 houses (traditional brick construction) on the Painters Ash estate for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Northfleet. Deposit £2 2s. Tenders by Sept. 12.

Penybont, Cards.—Erection of nine pairs of semi-detached police houses and one pair fire officers' houses, including construction of estate road at Penybont, near Penparcau, Aberystwyth, for Carmarthenshire and Cardiganshire Joint Police and Fire Authorities. Documents from the County Architect, County Hall, Aberystwyth. Deposit £3 3s. cheques payable to the Treasurer of the Joint Authority. Tenders by Sept. 17.

***Pwllheli, Caerns.**—Twenty-five houses, etc., for B.C. Deposit £4 4s. Tenders by Sept. 17.

Salisbury and Wilton, Wilts.—Following works for R.D.C.: (a) Four houses and six bungalows, together with site works, including drains, water mains, paths, fencing, road and sewage disposal plant at Broad Chalke, and (b) two houses, together with site works, including drains, water mains, paths and fencing at Berwick St. James. Documents from C. S. Brown, clerk of the Council, Council Offices, 26 Endless Street, Salisbury. Deposit £2 2s. each or either scheme. Drawings seen at the offices of the Council's architects, Bothams and Brown, 32 Chipper Lane, Salisbury. Tenders by Sept. 8.

***Shrewsbury, Salop.**—Erection of houses, bungalows, shops and garages for B.C. Deposit £2 2s. Tenders by Sept. 21.

***Shrewsbury, Salop.**—Erection of houses, bungalows, flats, garages and a shop for B.C. Deposit £2 2s. Tenders by Sept. 21.

Southam, War.—Erection of a housing estate at Harbury, comprising 46 units, 22 garages, foul and storm water sewers, roads and footpaths for R.D.C. Applications to Hellberg and Harris, architects, 13 Queen Victoria Road, Coventry, by Aug. 30. Deposit £4 4s. (cheques payable to Council). Tenders by Sept. 27.

South Cambridgeshire.—Following for R.D.C.: (a) Twelve houses, Melbourn; (b) two bungalows, West Wrattling; (c) construction of road and incidental work, Gamlingay. Documents from Council's Architect, County Hall, Hobson Street, Cambridge. Deposit £2 2s. each scheme, payable to Council. Tenders by Aug. 30.

Staines, Middx.—Thirty-six dwellings and 44 garages, sections D, E, F and G, Town Lane, for U.D.C., comprising the erection of two three-storey blocks, each containing three flats and six maisonnettes, four pairs of old people's bungalows, a terrace of 10 houses and 44 garages. Applications to Clerk of the Council, Council Offices, Staines. Deposit £2 2s. Tenders by Sept. 16.

Sunderland, Dur.—Erection of the following, for B.C.: (a) One block of 10 two-storey flats at junction of Pestbury and Presthope Roads, Pennywell; (b) six dwellings at Plantation Square, Ford estate; (c) 10 dwellings at Padgate Road, Pennywell; (d) nine dwellings at junction of Hylton Lane and Holborn Road, Hylton Lane estate; (e) four dwellings at Springwell Road, Springwell estate. Documents from the Borough Architect, Grange House, Stockton Road, Sunderland. Deposit £2 2s. each (cheques payable to Corporation). Tenders by Aug. 29.

***Swinton and Pendlebury, Lancs.**—Houses, flats, etc., for B.C. Tenders by Oct. 3.

***West Bromwich, Staffs.**—One hundred and thirty-two maisonnettes for B.C. Tenders by Sept. 16.

West Lothian.—Following trades for 131 houses at Hardhill, Armadale, for C.C.: (a) Excavator, concrete and brick works; (b) carpenter and joiner works; (c) glazier work; (d) plumber work; (e) roof tiler and rough-cast work; (f) plaster work; (g) electrical work; (h) painter works; and (i) iron railings and gates. Application to County Clerk, County Buildings, Linlithgow, by Aug. 23.

Wigan, Lancs.—Twenty-seven dwellings at Drummond Square site, Laithwaite housing estate for B.C., including 12 type E1 three-bedroom houses at end of blocks; seven type E2 three-bedroom houses in middle and at end of blocks; four type F1 corner blocks comprising two flats, one and two bedrooms. Applications to G. Keighley, borough and water engineer, Municipal Buildings, Library Street, Wigan, giving details of similar schemes undertaken, together with the names of two independent persons to whom reference can be made concerning such schemes. Evidence should be submitted at the same time that the tenderer will have the organisation and labour to carry out the

work expeditiously. Deposit £2 2s. (cheques payable to Corporation). Tenders by Sept. 12.

Wisbech, Cambs.—Erection of 24 houses, Lerowe Road, for B.C. Documents from the Borough Engineer, Church Terrace, Wisbech. Deposit £1 1s. Tenders by Sept. 7.

Worsley, Lancs.—Erection of flats with maisonnettes over on the Kingsley Road site, for U.D.C. Documents from L. T. Broome, engineer and surveyor, Town Hall, Walkden. Deposit £2 2s., payable to U.D.C. Tenders by Sept. 2.

York.—Erection of a block of 13 flats at Albert Street, Walmgate, for City Council. Documents from E. Firth, city architect, 8 St. Leonard's Place, York. Deposit £3, cheque payable to Corporation. Tenders by Sept. 9.

MATERIALS AND SUPPLIES

Blackpool, Lancs.—Supply and delivery of Accrington selected common engineering bricks for the 12 months October, 1960, to September, 1961, for Fylde Water Board. Documents from the Engineer to the Fylde Water Board, Sefton Street, Blackpool. Tenders by Sept. 10.

***Bristol.**—Supply of materials for City Council. Tenders by Sept. 3.

***Cardiff.**—Gymnasia equipment for City Council. Deposit £2 2s. Tenders by Aug. 30.

***Cardiff.**—Fixed art and craft room and laboratory furniture for City Council. Deposit £2 2s. Tenders by Aug. 30.

Crewe, Ches.—Supply of the following materials during the period January 1—December 31, 1961, for B.C.: Spades, shovels, buckets, brushes, etc.; soaps and cleaning materials, including mops, cloths and dusters; concrete paving flags; granite chippings, tarmacadam; water fittings, sanitary goods, castings; grate parts; paints and distempers, etc.; electric lamps, conduit, switch and fuse gear; electric accessories. Applications to the Borough Engineer and Surveyor, Municipal Buildings, Crewe, by Sept. 26.

Dundee.—Supply and delivery of road traffic signs for City Council. Documents from the City Engineer, 21 City Square, Dundee. Tenders by Aug. 31.

Glasgow.—Supply of 5,000 bracket fittings for electrical stairlighting for City Council. Sample may be inspected and specification and form of offer obtained at the Lighting Department, 20 Trongate, Glasgow. Tenders by Sept. 9.

Llantrisant and Llantwit Fardre, Glam.—Supply and delivery of approx. 1,000 dustbins in the period ending March 31, 1961, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Danygraig, Llantrisant, Glam. Tenders by Sept. 19.

Seaham, Dur.—Supply of the following for 64 flats for U.D.C.: Precast concrete units; breeze blocks; plastering materials; sand; rough aggregate; hardware; fires and fireplaces; plumbing materials; sanitary fittings; gas heated washboilers; glazing materials; timber; joinery; general materials. Documents from the Engineer and Surveyor, Cliff House, Seaham. Tenders by Aug. 31.

MISCELLANEOUS

Llanelli, Carm.—Installation of communal television aerial system, comprising 44 dwellings, Western Works site, Station Road, for B.C. Documents from the office of the Borough Architect, 5 Goring Road, Llanelli. Tenders by Aug. 29.

PLANT AND MECHANICAL TRANSPORT

Chorley, Lancs.—Following for B.C.: (1) Two new diesel Karrier Bantam 7 cu. yd. all-steel refuse collectors. Tenders should contain offers to take in part exchange two 1951 Karrier Bantam 7 cu. yd. refuse collectors; (2) one new diesel Karrier Bantam highways tipper with steel lined wood body and drop sides. Tenders to include for vehicles painted, lettered, and delivered complete. Further details from Borough Engineer, Town Hall, Chorley. Tenders by Sept. 5.

Flint.—Supply and delivery of the following vehicles for B.C.: (1) Public Health Department 800-gallon Karrier/Yorkshire gully/cesspool emptier; (2) Housing Department, Commer 1½-ton lorry (open tipper). Documents from the respective Departments at the Municipal Offices, Earl Street, Flint. Tenders by Sept. 8.

Ilkley, Yorks.—Supply of a J.C.B. Mk. 4 excavator and loading shovel for U.D.C. Tenders are to include an allowance for the Council's existing J.C.B. excavator which is offered in part exchange. Documents from the Engineer and Surveyor's Department, Chantry Drive, Ilkley. Tenders by Sept. 10.

Kingston-upon-Thames, Surrey.—Supply of one steel-bodied refuse trailer for B.C. Documents from Borough Surveyor, Guildhall, Kingston-upon-Thames. Deposit £1. Tenders by Aug. 31.

Lurgan, Armagh.—Following for B.C.: Supply and delivery to the Council Yard of

a High Lift loader complete with trip bucket and fittings suitable for attachment to a Massey-Ferguson 35 tractor. Tenders, in plain sealed envelopes, endorsed "High Lift Loader," should state delivery date and must reach the Town Clerk, Town Hall, Lurgan, by 12 noon, Sept. 3.

***Merionethshire.**—Diesel compressors for C.C. Tenders by Aug. 29.

Newcastle-under-Lyme, Staffs.—Two Bedford 3-ton S.W.B. tipping lorries for B.C. Documents from the Borough Surveyor, Lancaster Building, Newcastle. Tenders by Aug. 30.

Portsmouth, Hants.—Following at Great Salters pumping station for City Council: Supply and erection of two automatically controlled pumps. The capacity of each pump is to be between 1,800 and 2,200 g.p.m. The pumps are to be of the suspended or submersible type. Documents from the City Engineer, 1 Clarence Parade, Portsmouth. Deposit £2. Tenders by Sept. 30.

Twickenham, Middx.—Supply of all or any of the following for B.C.: One Dennis gully emptier; two Karrier Gamecock refuse collectors; four Bedford 3-ton tippers; one Thames 5cwt. van; one Winger 7/5 concrete mixer; two Ransomes 30in. verge cutters; and one Allen Autocycle. Documents from the Borough Engineer, Municipal Offices, Twickenham. Tenders by Sept. 7.

Wrexham, Denbighs.—Supply and delivery of one Karrier 18 cu. yd. dual tip refuse collector with double cab, 11ft. 9in. wheel base on 703 x 20 10-ply tyres, including spare wheel and tools as supplied by the manufacturers, fitted with diesel engine, rear riding step, flashing indicators and heater, painted in the standard colour (Clarendon grey) and lettered to the Council's requirements. Tenders with full particulars of the vehicle and stating delivery period, in a sealed envelope endorsed "Refuse Collecting Vehicle," to Trevor L. Williams, clerk and solicitor, Imperial Buildings, Regent Street, Wrexham, by noon, Aug. 26.

PLAYING FIELDS, PARKS, ETC.

***Barking, Essex.**—Reinstatement of hatted camp site, Barking Park, for B.C. Tenders by Sept. 5.

Cwmbran, Mon.—Following for U.D.C.: One hundred and eighty-three lin. yd. post and wire fencing; 200 lin. yd. of 18in. and 15in. porous concrete pipe drains; grading, preparing and seeding approximately five acres of sportsfield and ancillary works, all at Maendy playing field, Upper Cwmbran. Documents from the Surveyor, Council Offices, Cwmbran. Deposit £3 3s. Tenders by Sept. 5.

Herefordshire.—Formation of playing fields at the County Secondary School under construction at Kington, for C.C. The work includes grading, preparation, seeding, jumping pits, non-turf wickets, etc. Applicants who have not previously tendered for similar work for the Authority should enclose a short list of playing fields contracts carried out (with contract figures) and the names of two or three authorities or persons to whom reference may be made. Applications to County Architect, Bath Street, Hereford, by Aug. 22.

***Merton and Morden, Surrey.**—Construction of four tennis courts, for U.D.C. Tenders by Aug. 31.

***Oxford.**—Landscaping of London Road improvement for City Council. Tenders by Sept. 12.

Surbiton, Surrey.—Resurfacing of four hard tennis courts at Surbiton Lagoon, Alexandra recreation ground and King George's Field, for B.C. Documents from the office of R. Thirlway, borough engineer and surveyor, Council Offices, Ewell Road, Surbiton. Tenders by Aug. 26.

RIVER AND FLOOD PREVENTION WORKS

***Beeston and Stapleford, Notts.**—Audon Avenue flood relief scheme, Chilwell, for U.D.C. Deposit £2 2s. Tenders by Sept. 6.

Bungay, Suffolk.—Construction of a new reinforced concrete sluice structure on River Waveney at Bungay for East Suffolk and Norfolk River Board. Containing approximately 3,000 cu. ft. of concrete, with approximately 3,500 sq. ft. of steel sheet piling in foundations and piling to river banks, together with erection only of a 20ft. by 7ft. sector sluice gate and two 12ft. by 1ft. 6in. weir crest gates. Documents from K. E. Cotton, chief engineer to the Board, The Cedars, Albemarle Road, Norwich. Deposit £5 5s. Tenders by Sept. 8.

ROADS, BRIDGES AND SITE WORKS

Barnes, Surrey.—Following works for B.C.: (1) Making-up of Uplands Close, London, S.W.14; (2) making-up of Stonehill Road, London, S.W.14 (part off); (3) widening Christ Church Road, London, S.W.14 (part off). The work comprises laying hardcore foundation,

kerbing and channelling, construction of paved footways and bituminous macadam surfacing of carriageways. Documents from W. R. Shepherd, borough engineer and surveyor, Municipal Offices, Sheen Lane, London, S.W.14. Tenders by Aug. 26.

***Barnet, Herts.**—Re-laying paved footways for U.D.C. Tenders by Aug. 24.

Batley, Yorks.—Construction of Hill Crescent, Howden Clough, for B.C. The work includes excavating, sewerage, levelling, paving, tarmacadam and fine cold asphalt surfacing, flagging, kerbing, etc., and making good the above road. The length of this road is 140 lin. yd. approximately. Documents from the Borough Engineer, Hanover Street, Batley. Tenders by Sept. 12.

***Bedford.**—Construction of roadworks and surface water drainage, for B.C. Deposit £2 2s. Tenders by Sept. 13.

Bedford.—Following for B.C.: Construction of approximately 3,500 sq. yd. of carriageway, 400 sq. yd. footpath, surface water drainage and incidental works at Church Lane, from Queens Drive to Putnoe Street. Documents from the Borough Engineer, Newnham House, Horne Lane, Bedford. Deposit £2 2s. Tenders by Sept. 13.

Beeston and Stapleford, Notts.—Following for U.D.C.: Spinney Rise, Toton; Tattershall Drive, Service Road, Beeston; Middleton Street, Beeston; Anderson Crescent, Beeston; Farfield Avenue, Beeston; Farfield Grove, Beeston. Making-up of the first two named streets and reconstruction of the remaining streets, including excavation, sewerage, kerbing and channel foundations, surfacing and footpath works. Documents from the Engineer and Surveyor, Town Hall, Beeston. Deposit £1 1s. each. Tenders by Sept. 5.

Belfast.—Supply and delivery of steel reinforcement for piling, foundations and basement at College of Art for City Council. Documents from Education Architect's Department, 40 Academy Street, Belfast, 1. Tenders by Sept. 8.

Beverley, Yorks.—Construction of sewer works and 900 super. yd. of new tarmac roadway off New Walk, Beverley. Documents from A. I. Windross and Partners, Ltd., land agents and surveyors, Princes Dock Side, Hull. Tenders by Aug. 29.

Birmingham.—Reconstruction of Coley's Lane, Northfield, for City Council. Documents from the office of Sir Herbert J. Manzoni, city engineer and surveyor, Civic Centre, Birmingham, 1. Deposit £2 2s. Tenders by Aug. 24.

Brighouse, Yorks.—Surfacing sections of the following trunk roads for B.C.: Leeds Road, A.62, Cooper Bridge—4,050 sq. yd. (approximately) 1 1/2 in. rolled asphalt; Leeds-Whitehall Road, A.58, Norwood Green, 10,000 sq. yd. (approximately) 1 1/2 in. dense tar. Documents from the office of the Borough Engineer, Commercial Street, Brighouse. Deposit £1. Tenders by Sept. 3.

***Brighton, Sussex.**—Street works at Greenbank Avenue, Saltdean, for B.C. Tenders by Aug. 30.

Bristol.—Preparation of Hillburn Road housing site for City Council. Tenders by Sept. 12.

Burnham-on-Sea, Som.—Reconstruction of two streets at Highbridge, contract 36 for U.D.C., including 790 lin. yd. of concrete kerb; 1,040 sq. yd. carriageway foundations; 2,940 sq. yd. macadam carriageway surfacing; 200 sq. yd. macadam footpath, together with various ancillary works. Documents from G. Harvey Mayhew, engineer and surveyor, Manor House, Manor Gardens, Burnham-on-Sea. Deposit £2 2s., cheque. Tenders by Aug. 25.

***Caernarvonshire.**—Roadworks at Capel Curig, for C.C. Tenders by Sept. 3.

Cambridge.—Reconstruction of accommodation bridge at Hail Weston, River Kym, for Great Ouse River Board. The work consists of the replacement of the existing bridge with a new bridge, involving the driving of precast concrete-bearing piles, and construction of a composite bridge deck in steel and concrete, channel improvement works over a length of 150yd. are also included. Documents from the Engineer of the Board, Elmhurst, Brooklands Avenue, Cambridge. Deposit £5 5s., cheques payable to the Board. Tenders by Aug. 26.

Carlton, Notts.—Making-up of Chandos Street (part off) and Emerys Road (part off), for U.D.C., including the construction of carriageways, footpaths, sewers and incidental works. Documents from E. C. Kirk, engineer and surveyor, Council House, Burton Road, Carlton, near Nottingham. Deposit £2. Tenders by Aug. 24.

***Carmarthenshire.**—Road diversion at Llandybie for C.C. Deposit £2. Tenders by Aug. 31.

***Caterham and Warlingham, Surrey.**—Resurfacing footways for U.D.C. Tenders by Sept. 9.

***Chelmsford, Essex.**—Sub-contract for piling and ground beam construction, new

livestock market, for B.C. Deposit £2 2s. Tenders by Sept. 7.

***Chingford, Essex.**—Road repairs, Epping Way, for B.C. Deposit £2 2s. Tenders by Sept. 5.

***Cumberland.**—Diversion of sewers and construction of footbridge for River Board. Deposit £2 2s. Tenders by Sept. 16.

***Dagenham, Essex.**—Romford Road reconstruction for B.C. Deposit £2 2s. Tenders by Sept. 10.

***Derbyshire.**—Private street works, Netherfield Road, Chapel-en-le-Frith, for C.C. Deposit £2. Tenders by Aug. 30.

Dover.—Making-up of Deanwood Road, stage 2, for B.C. The works include approximately 1,000 sq. yd. of carriageway; 400 sq. yd. of footway; and 140 lin. yd. of 9in. surface water sewer, with manholes, gullies, etc. Documents from the Borough Engineer, Brook House, Dover. Deposit £2 2s. Tenders by Aug. 31.

***Easthamstead, Berks.**—Realignment of Swan Lane, etc., for R.D.C. Deposit £2 2s. Tenders by Sept. 12.

***Ebbw Vale, Mon.**—Construction of roads and sewers, etc., at Rassau housing site, for U.D.C. Tenders by Aug. 29.

***Erith, Kent.**—Public car park at Stonewood Road, for B.C. Deposit £2 2s. Tenders by Sept. 2.

Farnham, Surrey.—Surfacing of carriageways and footpaths on the Greenhill Close and Thurbans Road site for U.D.C., the approximate quantities of work being as follows: (a) 460 super. yd. two course bitumen macadam carriageway; (b) 990 super. yd. two course bitumen macadam footpath surfacing; (c) 1 1/2 acres cultivation and grass seeding of open space. Documents from Geoffrey Poole, engineer and surveyor, Council Offices, South Street, Farnham. Deposit £2 2s. Tenders by Sept. 16.

Forfar, Angus.—Reconstruction and asphalt surfacing of approximately 10,000 sq. yd. of carriageway and footpath, along with approximately 15,000 sq. yd. of carriageway surface dressing, and incidental works for B.C. Documents from the Burgh Surveyor, Municipal Buildings, Forfar. Tenders by Sept. 5.

Godalming, Surrey.—Roads and sewers at Green Lane estate, Farncombe, for B.C., which include approximately: 8in. lean-mix concrete carriageway with 2in. hot rolled asphalt surfacing, 1,700 sq. yd.; 5in. reinforced concrete carriageway, 875 sq. yd.; concrete kerbing, 1,650 lin. yd.; 6in. foul sewer, 400 lin. yd.; 6in. surface water sewer, 310 lin. yd.; 9in. surface water sewer, 140 lin. yd.; 24in. surface water sewer, 95 lin. yd.; 27in. surface water sewer, 220 lin. yd.; 30in. surface water sewer, 600 lin. yd. Documents from the Borough Surveyor, Branksome, Filmer Grove, Godalming. Deposit £2 2s. Tenders by Aug. 29.

Great Yarmouth, Norfolk.—Making-up of Granville Road, Century Road, and adjacent passages, for B.C. The work includes excavation, hardcore foundation with rolled asphalt surfacing for approximately 1,080 sq. yd. of carriageway, kerbing, precast concrete footpaths 5ft. wide, and surface water gullies with connections, etc. Documents from the Borough Engineer, Town Hall, Great Yarmouth. Tenders by Aug. 31.

***Halesowen, Worcs.**—Making-up Cobham Road, for B.C. Deposit £2 2s. Tenders by Aug. 27.

Heanor, Derbys.—Making-up of Park Street for U.D.C. Documents from J. H. Garside, engineer and surveyor, Council Offices, Ilkeston Road, Heanor. Deposit £3 3s. Tenders by Aug. 27.

Heanor, Derbys.—Making-up of Argyle Street, Langley Mill, for U.D.C. Documents from J. H. Garside, engineer and surveyor, Council Offices, Ilkeston Road, Heanor. Deposit £3 3s. Tenders by Aug. 27.

Hereford.—Footpath to Holmer Schools for City Council, comprising the provision of approximately 350 sq. yd. of macadam footpath and 200 lin. yd. of 6ft. high chain link fencing. Documents from the office of the City Surveyor, Town Hall, Hereford. Deposit £2 2s. Tenders by Sept. 12.

***Hertfordshire.**—Making-up five private streets, for C.C. Tenders by Sept. 14.

***Hertfordshire.**—Road works (1) and (2), for C.C. Tenders by Sept. 14.

***Heston and Isleworth, Middx.**—Construction of Bell Road car park for B.C. Deposit £2 2s. Tenders by Sept. 8.

***Heston and Isleworth, Middx.**—Making-up Ivy Lane, Hounslow, for B.C. Deposit £2 2s. Tenders by Sept. 5.

***High Wycombe, Bucks.**—Construction of hardstandings for B.C. Deposit £2 2s. Tenders by Sept. 9.

***Hornchurch, Essex.**—Carriageway plastic white line markings, for U.D.C. Deposit £2 2s. Tenders by Sept. 5.

Hucknall, Notts.—Construction of roads and sewers for phase III of Wellbeck estate for U.D.C. Work includes approximately 8,150 sq. yd. of carriageway, 2,900 lin. yd.

of kerbs and precast channel, and 1,850 lin. yd. of concrete and glazed stoneware sewers, up to 21in. diameter, including manholes and ancillary works. Documents from the Engineer and Surveyor, Watnall Road, Hucknall. Deposit £2 2s. Tenders by Sept. 5.

Isle of Wight.—Highway improvement at Blackwater Junction, Blackwater, near Newport, for C.C. Work includes construction in lean mix concrete and bituminous macadam of approximately 700 lin. yd. of carriageway not less than 22ft. wide, together with surface water drainage, fencing and other ancillary works. Documents from the County Surveyor, County Hall, Newport, I. of W. Deposit £2 2s. Tenders by Sept. 13.

Kildare, Eire.—Supply and delivery of prestressed concrete beams for the extension of two bridges on the Naas/Dublin Road dual carriageway, for C.C. Documents from the Secretary, Kildare County Council, St. Mary's, Naas. Tenders by Sept. 9.

Leeds.—Road works (a) and (b) for City Council. Deposit £1 1s. Tenders by Sept. 1.

Leicestershire.—Making-up of Glenville Avenue, Glenfield, for C.C. Documents from the County Engineer and Surveyor, County Offices, Grey Friars, Leicester. Deposit £5. Tenders by Sept. 15.

Leighton Buzzard, Beds.—Road works at Regent Street for U.D.C. Deposit £2 2s. Tenders by Sept. 7.

Llanelli, Carm.—Advanced preparation work of the housing site near Nodda Chapel, Trimsaran, for R.D.C. The work comprises the laying of 2,215 sq. yd. of roads, 820 yd. sewers and surface water drains and other ancillary works. Documents from the Architect, 2 Queen Victoria Road, Llanelli. Deposit £2 2s. Tenders by Sept. 13.

London.—Widening of Kensington Church Street at its junction with Notting Hill Gate, for C.C. Documents from the Chief Engineer (G/CJ 2121/8), County Hall, Westminster Bridge, S.E.1. Deposit £3 (cheques payable to C.C.). Tenders by Sept. 12.

Luton, Beds.—Final making-up of part of Green Lane (total length approximately 45 lin. yd.) for B.C. Work comprises the construction of carriageway, footways and incidental works. Documents from the Borough Engineer, Town Hall, Luton. Deposit £2 2s. (cheques payable to Corporation). Tenders by Sept. 1.

Lutterworth, Leics.—Construction of roads and sewers at Baker Street, for R.D.C. Documents from A. F. Ashton, clerk of the Council, Council Offices, Lutterworth, Rugby. Tenders by Aug. 24.

Malden and Coombe, Surrey.—Re-laying existing and supplying and laying of new artificial stone paving for B.C. Documents from the Borough Engineer, Municipal Offices, New Malden, Surrey. Tenders by Sept. 16.

Maidenhead, Berks.—Road works (a), (b), (c) and (d) for B.C. Deposit £2 each. Tenders by Sept. 2.

Maidstone, Kent.—Widening of Willington Street (length approximately 600 yd.) in hardcore and tarmacadam, and the provision of a footpath for B.C. Documents from the office of the Borough Engineer, Palace Avenue, Maidstone. Tenders by Aug. 30.

Maidstone, Kent.—Resurfacing of footpaths in parts of 12 roads for B.C., including precast concrete kerbing and cold asphalt and tarmacadam surfacing. Documents from the office of the Borough Engineer, Palace Avenue, Maidstone. Tenders by Aug. 30.

Manchester.—Private street works for City Council. Tenders by Sept. 5.

Manchester.—Construction of 13,210 sq. yd. of carriageway, 2,275 lin. yd. of 9in.-27in. diameter sewer and culvert works, and ancillary works, Mill Street site, Ancients redevelopment area, for City Council. Documents from the City Surveyor, Room 208, Town Hall, Manchester, 2. Tenders by Aug. 29.

Manchester.—Extension of Floatshall Road, Glebelands Road, and removal of Floats Road for City Council. Work includes constructing 1,350 sq. yd. bitumen macadam carriageway, and all ancillary works. Documents from the City Surveyor (Room 208), Town Hall, Manchester, 2. Tenders by Aug. 29.

Manchester.—Royle Green Road development, stage 2, Northenden, for City Council, including the construction of 3,500 sq. yd. bitumen macadam carriageway, 500 lin. yd. 9in. to 12in. diameter sewer, and all ancillary works. Documents from the City Surveyor (Room 208), Town Hall, Manchester, 2. Tenders by Aug. 29.

Manchester.—Paving and completing the following streets for City Council: (1) Coatbridge Street, Clayton—approximately 100 sq. yd. of bitumen macadam carriageway, 90 sq. yd. of precast concrete flag footpath and all ancillary works (2) Miller Street, Newton Heath—approximately 280 sq. yd. of bitumen macadam carriageway, 110 sq. yd. of asphalt sand carpet footpath and all ancillary works.

Documents from the City Surveyor, Town Hall, Manchester, 2. Tenders by Sept. 5.

Melton Mowbray, Leics.—Roads resurfacing contract, 1960, for U.D.C. Tenders by Aug. 23.

Merton and Morden, Surrey.—Road works, Kingston Road and West Barnes Lane, for U.D.C. Tenders by Sept. 5.

New Mills, Ches.—Making-up of St. George's Road for U.D.C., involving approximately 3,070 sq. yd. of roadworks, including excavation, pitching, kerbing, tarred macadam surfacing, gully connections, erection of two street lighting columns, together with incidental works. Documents from the office of the Surveyor, Town Hall, New Mills, near Stockport. Tenders by Sept. 1.

Norfolk.—Making-up of part of Hurn Road, Drayton, for C.C., including approx. 2,900 sq. yd. of carriageway, 15 soakaways, 1,370 sq. yd. of footpath and 940 lin. yd. of kerb. Documents from the County Surveyor, County Offices, Thorpe Road, Norwich. Deposit £5. Tenders by Sept. 9.

Nuneaton, War.—Drainage and paving of garage sites for B.C. Documents from the Borough Surveyor, Council House, Nuneaton. Deposit £2 2s. Tenders by Sept. 5.

Plymouth.—Making-up of Powisland Drive for City Council. The work involves the following: (1) Laying of 700 lin. yd. approximately of 9in. foul water and surface water sewers and 130 lin. yd. approximately of 6in. gully connections; (2) making-up of 2,900 sq. yd. approximately of carriageway with granular base and asphalt surfacing and the laying of 865 lin. yd. approximately of concrete kerb; (3) making-up of 1,700 sq. yd. approximately of tarmacadam footpath; (4) incidental and ancillary work. Documents from J. Ackroyd, city engineer and surveyor, Guildhall, Plymouth. Deposit £2. Tenders by Aug. 31.

Pontypool, Mon.—Widening and improvement, The Highway, New Inn, Panteg Canal Bridge, Pontypool Road station bridge, for U.D.C. Deposit £3 3s. Tenders by Sept. 12.

Rayleigh, Essex.—Making-up Three Road for U.D.C. Tenders by Sept. 1.

St. Albans, Herts.—Surface dressing of footpaths for City Council. Tenders by Aug. 31.

St. Thomas, Devon.—Following works for R.D.C.: (a) The construction of a lay-by; the provision of a sewage disposal works, etc., to serve six houses at Dunchideock housing site; (b) construction of two porches at the rear of 1 and 2 St. George's Terrace, Shillingford St. George; (c) external painting of Council Offices at 31 Southernhay East, Exeter. Documents from the offices of the Engineer, Council Offices, Southernhay East, Exeter. Tenders by Sept. 19.

Salford, Lancs.—Construction of a new playground at the Halton Bank School, Bolton Road, for City Council. Documents from the City Engineer and Surveyor's Department, Town Hall, Salford, 3. Tenders by Aug. 31.

Sandown-Shanklin, I. of W.—Reconstruction and making up of part of Brook Road, Shanklin, including kerbing, excavation, ballasting and surfacing of the carriageway and footpaths and other incidental works, for U.D.C. Documents from Surveyor's Office, Town Hall, Sandown, I. of W. Deposit £2 2s. Tenders by Aug. 27.

Scunthorpe, Lincs.—Construction of roads, sewers and water mains on Brumby Wood Lane Cemetery, for B.C., including approx. 13,000 sq. yd. of carriageway construction; 5,000 lin. yd. of kerbing; 4,000 lin. yd. of stoneware pipe (15in. to 4in. diameter); 1,000 lin. yd. of watermain (3in. diameter). Documents from F. J. Bowyer, borough surveyor, Laneham Street, Scunthorpe. Deposit £2 2s. Tenders by Sept. 7.

Southampton.—Making-up of Coates Road, contract PSW77 for B.C. Apply before Aug. 29.

Southampton.—Following for B.C., contract S.217: Construction of access roads, concrete garage aprons and bases and appurtenant works on various sites within the Borough. (Approximately 2,000 sq. yd. bases, 3,500 sq. yd. aprons, and 400 lin. yd. sewers.) Applications to Borough Engineer, Civic Centre, Southampton, by Aug. 23.

Southgate.—Making-up of Seaford Road, N.11, for B.C. The street is approximately 40ft. wide and 434 yd. long, and the work includes the following: paving, kerbing, surfacing with bitumen macadam on a tarmacadam base course on 8in. hardcore and 3in. clinker, together with all ancillary works, including a small amount of drainage works. Written applications to the Borough Engineer and Surveyor, Town Hall, Palmers Green, London, N.13. Tenders by Sept. 5.

Southport, Lancs.—Making-up of Bamber Gardens for B.C. Deposit £2 2s. Tenders by Aug. 30.

Staffordshire.—Construction of dual carriageway diversion, for C.C. Deposit £5. Tenders by Sept. 26.

***Stoke-on-Trent, Staffs.**—Hamil Road improvement, Burslem, for City Council. Deposit £2. Tenders by Sept. 7.

***Stoke-on-Trent, Staffs.**—Completion of Street works for City Council. Deposit £2. Tenders by Sept. 7.

***Surrey.**—Demolition of Terriers Bridge, Merton High Street, and reconstruction in steel and concrete for C.C. Tenders by Sept. 20.

***Walton and Weybridge, Surrey.**—Private street works for U.D.C. Tenders by Sept. 6.

Wanstead and Woodford, Essex.—Junction George Lane, B.168-High Road, A.11, improvement, for B.C., which consists of widening the existing carriageway. The work includes provision of 320 sq. yd. reinforced concrete surfaced with 3in. bitumen macadam, together with kerbing, drainage, footway construction and appurtenant works. Documents from the Borough Engineer, Municipal Offices, Woodford, E.18. Deposit £2. Tenders by Aug. 25.

Wellingborough, Northants.—Construction of a footpath together with incidental works from London Road to Mill House estate, Bozeat, contract 237, for R.D.C. Documents from C. L. Hanwell, surveyor, Rural Council Offices, 20 Oxford Street, Wellingborough. Deposit £1 1s. Tenders by Sept. 10.

West Riding.—Diversion and improvement of the Liverpool-Preston-Leeds trunk road (A.59) at Sawley in the Bowland Rural District, for C.C., consisting of: (a) The construction of a single carriageway road approx. one mile in length of a nominal overall width of 60ft., approx. 200 lin. yd. of dual carriageway road of a nominal overall width of 77ft., the realignment of a side road for a distance of approx. 400 lin. yd. and the reconstruction of one junction with the trunk road. The single carriageway will be 33ft. wide, the dual carriageways will be each 24ft. wide, the side road 24ft. wide, each of flexible construction and consist of two-course tar or bitumen macadam surfacing on a cement-bound granular base, with concrete marginal strips flanked on the outer edge by hard shoulders; (b) the construction of a 5ft. diameter "Armco" culvert approx. 100 yd. in length beneath the proposed road. Documents from the County Engineer and Surveyor, County Hall, Wakefield. Deposit £25. Tenders by Sept. 19.

***Widnes, Lancs.**—Catherine Street and Ollier Street improvement, contract 389, for B.C. Deposit £2 2s. Tenders by Sept. 16.

***Wisbech, Cambs.**—Roads and sewers, Lerowe Road housing site, for B.C. Deposit £2 2s. Tenders by Sept. 5.

Woking, Surrey.—Roadworks at Hermitage estate for U.D.C. Work includes approximately 2,500 sq. yd. of roadworks, 850 lin. yd. of kerbing and 2,700 sq. yd. of bitumen macadam and asphalt footways and ancillary works. Documents from the Engineer and Surveyor, Council Offices, Woking. Deposit £2 2s. Tenders by Sept. 5.

***York.**—Road works at The Grange, Huntington Road, for City Council. Deposit £2. Tenders by Sept. 6.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Aberaeron, Cards.—Construction of Ffos-y-Flin sewerage and sewage disposal scheme for R.D.C., which includes excavating and refilling trenches in fields and roads, supplying, laying and jointing approximately 1,060 lin. yd. of 6in. diameter concrete tubes, 19 precast concrete and brick manholes, salt-glazed ware house connections, together with the construction of a sewage treatment works comprised of septic tank, dosing tank and filter and other incidental works. Documents from the office of J. Owen Parry and Lewis, consulting engineers, Arcade Chambers, Ammanford, Carm., or S. G. D. Evans, clerk of the Council, Council Offices, 1 North Road, Aberaeron. Deposit £5 5s., cheque payable to R.D.C. Tenders by Aug. 30.

***Aberystwyth, Cards.**—Construction of sewer at Sea View Place, for B.C. Tenders by Sept. 19.

***Aldridge, Staffs.**—Eastern area sewerage, contract 2, for U.D.C. Deposit £5 5s. Tenders by Sept. 23.

***Beverley, Yorks.**—Leven and Tickton sewerage schemes, for R.D.C. Deposit £3 3s. Tenders by Sept. 16.

***Bridgewater, Som.**—Piping of Middle Stream Rhone, Broadway Lido site, Taunton Road, for B.C. Deposit £2 2s. Tenders by Aug. 31.

Brighouse, Yorks.—Following works at Cooper Bridge sewage disposal works for B.C.: (1) Construction in reinforced concrete of a 90ft. diameter flat-bottomed humus tank, together with a new effluent carrier, wells, pipework and other ancillary works; (2) construction in reinforced concrete of a new sludge well and pump well; (3) construction of a new pump house; (4) laying of approximately 1,000 lin. yd. of rising main in 6in. diameter asbestos pipes. Documents from the office of the Borough Engineer, Com-

mercial Street, Brighouse. Deposit £5 5s. Tenders by Sept. 12.

Bradfield, Berks.—Stratfield Mortimer drainage, additions to treatment works, contract 22, for R.D.C. Work includes the construction of the following: (a) Settlement tank; (b) filter with rotary distributor; (c) humus tank; (d) two rotary distributors to existing filters; (e) ancillary pipelines. Documents from John Taylor and Sons, engineers, Artillery House, Artillery Row, Victoria Street, Westminster, S.W.1. Deposit £5 (cheques payable to R.D.C.). Tenders by Sept. 12.

Braintree and Bocking, Essex.—Replace-ment sewer, Grenville Road, for U.D.C. The work consists of laying approximately 280 lin. yd. of 9in. to 6in. sewers, with flexible telescopic joints, together with alterations, connections, manholes and gullies, and other appurtenant works. Documents from the Surveyor, Town Hall, Braintree. Deposit £2 2s. Tenders by Aug. 26.

Brighouse, Yorks.—Main drainage reconstruction scheme, contract 16, for B.C., including the laying of approximately 185 lin. yd. of 33in. diameter concrete pipe sewer, together with the construction of five manholes in Commercial Street, which is the main shopping centre of the town. It is a condition of the contract that work shall continue 24 hours per day, seven days per week, until completed. Documents from the office of the Borough Engineer, Commercial Street, Brighouse. Deposit £1. Tenders by Aug. 29.

Colne Valley, Yorks.—Alterations to existing storm overflow and flow recording manholes, the installation of control equipment, mechanically raked screens and other appurtenant works, contract 1a for U.D.C. Documents from the office of the Engineer and Surveyor, Town Hall, Cross Street, Slaithwaite, Huddersfield. Deposit £1 1s. Tenders by Sept. 16.

Denholme, Yorks.—Whalley Lane sewerage extension, for U.D.C.: (Contract 1) The laying of 125yd. 6in. earthenware sewer, 233yd. 4in. cast-iron rising main, the construction of an ejector station, manholes, etc., and sludge drying beds and repairs at the existing disposal works; (2) the provision and erection of a compressed-air ejector 30 g.p.m. against 50ft. head. Documents from Arnold Brooksbank and Son, consulting engineers, 48 Sunbridge Road, Bradford, 1. Deposit £3 3s., cheque payable to U.D.C. Plans also seen at Council Offices, Denholme, near Bradford. Tenders by Sept. 5.

Feltham, Middx.—Proposed outfall sewer 1, section 2, for U.D.C., comprising the construction of approximately 1,177yd. of 30in. diameter soil sewer in open cut at an average depth of 14ft., together with manholes and ancillary works. Documents from the Engineer and Surveyor, Lynton House, 13 Hanworth Road, Feltham. Deposit £2 2s. Tenders by Sept. 5.

Fylde, Lancs.—Sewer extension, Weeton, for R.D.C. Deposit £2 2s. Tenders by Aug. 29.

Holland.—Diversion of main sewer at Boston College of Further Education for E.C. Tenders by Sept. 12.

Holywood, Down.—Provision of approximately 1,300 lin. yd. of sewer in Victoria Road, Holywood, together with manholes, house connections, water overflow chambers, etc., and, in addition, the provision of approximately 300 lin. yd. of surface water sewer in High Street and Belfast Road, Holywood, for U.D.C. Documents from the Town Surveyor, Council Offices, Holywood. Deposit £5 5s. Tenders by Sept. 5.

Irlam, Lancs.—Supply and erection of three electrically operated pumps, any two of which should be capable of dealing with a maximum flow of unscreened sewage of 350 cu. ft. per minute against a total head of 36ft., for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Irlam. Deposit £1 1s. Tenders by Sept. 3.

Irlam, Lancs.—Construction of approx. 245 lin. yd. of 12in., 15in. and 18in. diameter concrete pipe sewer, together with five manholes and incidental works at Hayes Road, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Irlam. Deposit £1 1s. Tenders by Sept. 3.

Kincardineshire.—Extension of the Silver-bang sewerage system, for C.C. The work includes the extension of the existing sewer along the carriageway of A93, consisting of cutting trenches for and laying 100yd. of 7in. diameter fireclay sewers, 100yd. of 8in. diameter fireclay sewers, and 325yd. of 9in. diameter fireclay sewers, together with building six manholes, a flushing tank and incidental works. Documents from the County Sanitary Inspector, The Briars, Arduithie Road, Stonehaven. Tenders by Sept. 8.

Liverpool.—Supply and delivery of valves and penstocks to south sewage disposal works for City Council. Documents from

City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders by Sept. 5.

Liverpool.—Supply, erection and testing of two sets of tank cleaning machinery for sedimentation tanks at south sewage disposal works for City Council. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders by Sept. 16.

Magor and St. Mellons, Mon.—Cwm Lane, Rogerstone, sewerage scheme for R.D.C. Deposit £3 3s. Tenders by Sept. 12.

Rothwell, Yorks.—Micklethorn-Lemonroyd sewerage scheme, for U.D.C. Tenders by Aug. 23.

Sowerby Bridge, Yorks.—West Street relief sewer for U.D.C. Work includes construction of approximately six yd. of 48in. diameter concrete sewer, 77yd. of 27in. diameter concrete sewer, 37yd. of 9in. diameter g.e.w. sewer; 50yd. of 9in. diameter spun-iron sewer; four manholes; one storm overflow and appurtenant works. Documents from the Engineer and Surveyor, Beech Road, Sowerby Bridge. Deposit £2. Tenders by Sept. 16.

Sutton and Cheam, Surrey.—Surface water and soil sewers, High Street, for B.C. Deposit £2 2s. Tenders by Sept. 9.

Tamworth, Staffs.—Trunk foul sewer, for B.C. Tenders by Sept. 8.

Tamworth, Staffs.—Surface water drainage scheme, for B.C. Tenders by Sept. 8.

Walsall, Staffs.—Sewer extension, Bell Road, for B.C., including the construction of approximately 250 lin. yd. 9in. and 12in. diameter salt-glazed ware foul water sewer, together with concrete tube manholes. Documents from M. E. Habershon, borough engineer and surveyor, Council House, Walsall. Deposit £2 2s. Tenders by Aug. 30.

Wantage, Berks.—Harwell sewerage and sewage disposal scheme for R.D.C., including the construction of approximately 5,800yd. of 12in., 9in. and 6in. spun-iron and asbestos-cement pipe sewers, lateral connections, manholes, and the construction of a sewage disposal works, and conversion of existing settlement tanks to storm water tanks, and appurtenant works. Documents from the Engineer and Surveyor, Belmont, Wantage. Deposit £5 5s. Tenders by Sept. 17.

Whiston, Lancs.—Extension of culvert for R.D.C. Deposit £3 3s. Tenders by Sept. 14.

Wimborne and Cranborne, Dorset.—Colehill, Pamphill and Hampreston (parts of) sewerage scheme, contract 7, for R.D.C. Deposit £5 5s. Tenders by Sept. 22.

Worsley, Lancs.—Following works under one contract for Sewage Disposal Works at Little Hulton, for U.D.C.: (a) Construction of a sewage disposal works comprising four reinforced concrete settling tanks, two reinforced concrete aeration tanks, one reinforced concrete digestion tank, two sludge pump-houses, one reinforced concrete grit tank, two reinforced concrete consolidation tanks, reinforced concrete channels, foundation to gasholder, 13 sludge beds, together with access roads and services; (b) construction of intercepting sewer 1,850yd. long with 12in. to 27in. diameter concrete pipes; (c) 300yd. of 15in. cast-iron rising main. Documents from L. T. Broome, engineer and surveyor, Town Hall, Walkden, Manchester. Deposit £5 5s. Tenders by Aug. 27.

Wycombe, Bucks.—Woodburn Valley sewerage and sewage disposal extensions to Berghers Hill and Hedsor areas for R.D.C., comprising the construction of about 3,400yd. of 9in. and 6in. spun-iron and stoneware sewers, manholes, connections to existing sewers, and other appurtenant works. Applications to D. Balfour and Sons, 131 Victoria Street, Westminster, S.W.1, by Aug. 26. Deposit £5 (cheques payable to R.D.C.).

STREET LIGHTING

Cheadle and Gatley, Ches.—Supply and erection of 39 group A prestressed spun-concrete lighting columns, together with 140-W sodium lamps and lanterns, in Manchester Road, for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Abney Cheadle. Deposit £2 2s. Tenders by Sept. 7.

Guildford, Surrey.—Supply, erection, cabling, jointing and bringing into service of 117 class A lighting units on London Road, A.3100, Boxgrove Road, A.246, and Worpleston Road, A.321, for B.C. Documents from the Borough Engineer and Surveyor, Municipal Offices, Guildford. Tenders by Sept. 8.

Lisburn, Antrim.—Supply and erection of the necessary equipment for improved street lighting of the fluorescent type to Intermediate or group B standards in various streets, including alterations to existing equipment, for U.D.C. Documents from the Town Surveyor's Office, Town Hall, Lisburn. Tenders by Sept. 6.

Manchester.—Supply of street lighting equipment for City Council. Tenders by Sept. 6.

Oxfordshire.—Group A street lighting at Littlemore, for C.C. Work includes supply and erection of seven 35ft. steel columns with 200-280-W sodium lanterns and five 25ft. steel columns with 140-W sodium lanterns all with auxiliary equipment. Documents from the County Surveyor, 8 New Road, Oxford. Tenders by Aug. 31.

Staines, Middx.—Erection of public convenience, for U.D.C. Deposit £2 2s. Tenders by Sept. 27.

Wrexham, Denbighs.—Groups A and B street lighting, scheme 4 for B.C., including supply and delivery and erection of street lighting columns, brackets, lanterns and lamps. Documents from the office of the Borough Engineer and Surveyor, 31 Chester Street, Wrexham. Tenders by Sept. 4.

AWARDS

BUILDING AND DECORATING

(See also Housing Schemes)

Abergavenny, Mon.—Erection of stage I of the Multilateral Secondary School for C.C. Sydney Leyshon, county architect.—Rush and Tompkins, Ltd., 109 Station Road, Sidcup, Kent, £180,000.

Birmingham.—Following for City Council. A. G. Sheppard Fidler, city architect: Erection of Vauxhall Gardens Primary School—B. Whitehouse and Sons, Ltd., 247 Monument Road, Edgbaston, Birmingham, 16, £66,562; construction of branch library at Hall Green Job 391—Direct Labour, £32,257.

Bridgend, Glam.—Erection of store at Derwen Road for Co-operative Society, Ltd.—Rush and Tompkins, Ltd., 109 Station Road, Sidcup, Kent, £82,000.

Camberwell.—Factory extension at Blakes Road for Samuel Jones and Co. Slater and Uren, architects, 5 Gower Street, London, W.C.1.—Rush and Tompkins, Ltd., 109 Station Road, Sidcup, Kent, £18,000.

Cardiff.—Following for City Council: Adaptation of Lesser Hall—Direct Labour (recommended). Estimated cost £10,300. Thirteen garages at Whitaker Road—R. B. Fear (1955) (Cardiff), 35 Park Place, Cardiff, £2,130 (recommended).

Cricklade and Wootton Bassett, Wilts.—Improvements to eight houses at Cricklade for R.D.C. J. C. Grindley, engineer and surveyor—R. and H. Giles Bros., 48 High Street, Cricklade, £5,680.

Dewsbury, Yorks.—Improvements at Moorlands Open Air School for B.C.—G. E. Mellor, Brighouse, £4,307 (recommended).

Down.—(a) Electric lighting and heating installations; (b) plumbing installation at a new child health clinic, Park Avenue, Newcastle, for C.C. Barrett and Agnew, consulting engineers, 420 Ravenhill Road, Belfast—(a) A. and C. Electric, Ltd., Belfast, £1,781; (b) John Sinton, Ltd., Tandragee, Co. Armagh, £1,230.

Dudley, Worcs.—Following for B.C.: Interior painting at Wren's Nest and Woodside Junior Schools—J. and W. Edwards, Taylors Lane, Rounds Green, Oldbury, £1,312 and £2,100, respectively.

Erection of 89 garages at Russell's Hall estate—Eadie and Co. (Wolverhampton), Ltd., 29 Waterloo Road, Wolverhampton, £15,777 (recommended, subject to 'Ministry approval').

Durham.—Following for C.C.: Improvements to sanitation at Cockfield County School—G. Stephenson (Builders and Contractors), Ltd., Bishop Auckland, £1,506; renewal of floors at Blue Coat National (Aided) School—Pearson and Phelan, Durham, £2,373; renewal of floors at Shield Row Boys' Modern School—E. and A. Nelson, Durham, £2,247; renewal of floors at Walbridge Lane County School—Waites Brothers, Durham, £2,161.

Easington, Dur.—Renewal of floors at Easington Colliery County Infant Girls' School for C.C.—Waites Brothers, Durham, £1,289 (recommended).

Felling, Dur.—Following for C.C.: Renewal of floors at Heworth County School—J. G. Spotswood, Ltd., Newcastle upon Tyne, £1,642; additional accommodation at Leam Lane Roman Road County Junior Mixed and Infants' Schools—R. H. Hall and Co. (Kent), Ltd., Tonbridge, £5,751 (both recommended).

Ferryhill, Dur.—Alterations at Ferryhill Fire Station for C.C.—T. Manners and Sons, Ltd., Bishop Auckland, £3,320 (recommended).

Gateshead, Dur.—Erection of Technical College (third stage) for E.C. G. F. Winters, borough engineer—Cussins (Contractors), Ltd., The Drive, Gosforth; electrical work—Robson and Coleman, Ltd., Simpson Street, Newcastle upon Tyne. Erection of transport depot of about 25,000 sq. ft. on Team Valley Trading

Estate for J. W. Capstaff, Ltd., Benton, Newcastle upon Tyne. M. L. Kubik, civil engineer, Meridian Way, Newcastle upon Tyne—Kendall Cross and Co., Ltd., West End, Ponteland, Northumberland.

Great Yarmouth, Norfolk.—Following for B.C.: Erection of 23 garages at Brasenose Avenue—J. Cooper, Alpha Road, Gorleston, Great Yarmouth, £3,788 (recommended, subject to Ministry approval).

Improvements to lavatories at (a) Northgate/St. Andrew's, and (b) Nelson and St. George's Schools—Harris and Andrews, Ltd., 14 Alpha Road, Great Yarmouth, (a) £1,636, and (b) £1,960 (recommended).

Hammersmith.—Erection of Union House, Shepherd's Bush, W.12, as an extension to Threshold House for Threshold Estates, Ltd.—H. Fairweather and Co., Hyde Works, St. James' Lane, London, N.10.

Hampstead.—Erection of a dwarf brick wall along boundary of Templar House with Shoot-up Hill for B.C.—H. Parfitt and Sons, Ltd., 852 Harrow Road, Wembley, Middx., £1,733 (recommended).

Hazel Grove and Bramhall, Ches.—Alterations and additions to the Civic Hall, London Road, for U.B.C.—J. Fleming, Andrew, engineer and surveyor—J. J. Oakes and Sons, Ltd., 144 Dialstone Lane, Stockport, £3,293.

Hebburn, Dur.—Renewal of hall floor and improvements to sanitation at Hebburn Colliery County School for C.C.—J. G. Spotswood, Ltd., Newcastle upon Tyne, £1,223 (recommended).

Hexham, Northumb.—Alterations to Hexham Old Police Station for C.C.—T. D. Bird and Co., Nencotes, Hexham.

Horden, Dur.—Renewal of floors at Horden Colliery County Junior Girls' School and at Girls' Modern School for C.C.—E. and A. Nelson, Durham, £1,142, and J. Douglas and Son, Easington Village, £2,321, respectively (both recommended).

Ipswich, Suffolk.—Following for B.C.: Erection of extensions to the Northgate Grammar School for Girls—A. J. Gibbons, Cromford, Ipswich, £36,953 (subject to M.E. approval). Conversion of the third bedroom into a bathroom in 32 houses at Packard Avenue and Nansen Road—Direct Labour. Estimated cost £3,360.

Kensington.—Following for B.C.: Painting and decorating work at the pavilion and painting boundary railings, Northolt Playing Fields—Christophers (Painting and Contractors), Ltd., £1,490.

Improvement and conversion works at 19 Penzance Street to form flats—George S. Garner and Son (Builders), Ltd., £3,703 (recommended).

Kent.—Industrial premises at Ruxley Corner, Sidcup By-pass, Footscray, for Allied Suppliers, Ltd. Eric Firmin and Partners, architects, Thavies Inn House, Holborn Circus, London, E.C.1.—Rush and Tompkins, Ltd., 109 Station Road, Sidcup, Kent, £73,000.

Kirkby, Lancs.—Erection of 32 two-storey shops (second stage of new shopping centre at Kirkby, near Liverpool). Kenneth Wakeford, Jerram and Harris, architects, 7 Connaught Place, London, W.2.—Holland & Hannen and Cubitts (Great Britain), Ltd., New Chester Road, Wirral, Ches. Estimated cost £250,000.

Lindsey.—Erection of phases III and IV of the North Lindsey Technical College, Kingsway, Scunthorpe, for C.C. The buildings are to be of steel-framed construction, 43,000 sq. ft. in area, with roadworks, outfall sewer, and alterations to existing buildings. H. Ronald Clark, county architect—J. W. Hill, East Common Lane, Scunthorpe, £234,755. Work commenced.

London.—Office and workshop at 132-136 St. John Street, E.C.1. White and Traviss, architects, St. Pauls Chambers, Ludgate Hill, London, E.C.4.—Rush and Tompkins, Ltd., 109 Station Road, Sidcup, Kent, £70,000.

Office block at St. Johns, Clerkenwell, Campbell Jones and Sons, architects, Skinners Hall, 9 Dowgate Hill, Cannon Street, London, E.C.4.—Pauling Construction Co., Ltd., 26 Victoria Street, London, S.W.1, £150,000.

London.—Following for City of London Corporation: Final stage of construction of new public cleansing depot and wharf, comprising superstructure and mechanical and electrical installations—Holland & Hannen and Cubitts, Ltd., 1 Queen Anne's Gate, London, S.W.1, £885,908 (recommended); Gee, Walker and Salter, Ltd., £971,850. Demolition and Construction Co., Ltd., £969,230; Humphreys, Ltd., £950,718; John Mowlem and Co., Ltd., £949,727; Howard Farrow, Ltd., £930,353; Marshall Andrew and Co., Ltd., £920,185; Y. J. Lovell and Son, Ltd., £917,528; Trollope and Colls, Ltd., £915,057; Higgs and Hill, Ltd., £904,117.

Improvement to judge's staircase, public office and jury dining room, and annual redecoration works, at Central Criminal Court—Trollope and Colls, Ltd., 1 Noble Street, London, E.C.2, £12,909 (recommended); F. and H. F. Higgs, Ltd., £14,384; Mullen and Lumsden, Ltd., £14,271; Ashby and Horner, Ltd., £13,978; Walter Lilly and Co., Ltd., £13,187; Higgs and Hill, Ltd., £13,090.

Middlesbrough, Yorks.—Warehouse and store extension, Grange Road, for J. Hartas and Co.—Coults and Shaw, Ltd., Stephenson Street, Thornaby-on-Tees.

Middlesex.—Erection of a south office block and restaurant at London Airport for the Air Ministry—Pauling and Co., Ltd., 26 Victoria Street, London, S.W.1, £536,000. Frederick Gibberd, architect, 8 Percy Street, London, W.1, and Sir William Halcrow and Partners, consulting engineers, Alliance House, Caxton Street, London, S.W.1.

Construction of an office block at Feltham, Campbell Jones and Sons, architects, Skinners Hall, 9 Dowgate Hill, Cannon Street, London, E.C.4.—Rush and Tompkins, Ltd., 109 Station Road, Sidcup, Kent, £275,000.

Newcastle upon Tyne.—Erection of five-storey business block in Low Friar Street for Greencoat Properties, Ltd.—R. W. Bell and Co. (Builders), Ltd., Mistletoe Road, Jesmond, Newcastle upon Tyne, £200,000; workshops for J. Morley, Boyd Street—Sadler Brothers, Byker Village, Newcastle upon Tyne; foundry storage building at Glasshouse Street for British Engines, Ltd.—R. Bowey and Son, William Street, South Gosforth.

Erection of wholesale warehouse and showroom at Thornton Street for Waterloo House (Newcastle), Ltd., Arthur and Kirkup, architects, 13 Swinburne Street, Gateshead—R. C. Williamson, Ltd., Station Works, Rowlands Gill, Co. Durham. Work started.

Newport, Mon.—Alterations to existing store at Commercial Street for C. and A. Modes, Ltd., North and Partners, architects, 1 Warwick Street, London, W.1—Pauling Construction Co., Ltd., 26 Victoria Street, London, S.W.1.

Preston, Lancs.—New store at Friargate for Bradnor Estates, Ltd., North and Partners, architects, 1 Warwick Street, London, W.1—Pauling Construction Co., Ltd., 26 Victoria Street, London, S.W.1.

St. Albans, Herts.—Thirty-four garages at Everlasting Lane for City Council—R. Penny, 20 Lancaster Road, St. Albans, £5,781 (recommended).

Sedgefield, Dur.—Following for C.C.: Alterations to buildings at Weterton Farm, and alterations to farm buildings at Lizards Farm—Dinsdale Construction Co., Middleton St. George, £1,580 and £3,289, respectively; erection of concrete hay shed, Sedgefield estate, Holdings 3 and 4—Atcost (Durham), Ltd., Darlington, £1,248 (recommended).

Sevenoaks, Kent.—Construction of the Vestry Industrial Estate, R. T. James and Partners, consulting engineers, 6 Lower Grosvenor Place, London, S.W.1—Pauling and Co., Ltd., 26 Victoria Street, London, S.W.1, £600,000.

Sheffield.—Following for City Council: Interior painting at Darnall Road annexe to Whitby Road County School—J. Gee and Son, Ltd., 288 Ecclesall Road, Sheffield, 11, £1,420; interior painting and decorating in the City Hall—Direct Labour, £798; supply of mild steel and high tensile steel mesh for proposed subway and public conveniences at Moorhead—Pashley and Trickett, Ltd., Stoke Street, Sheffield, 9, £2,349; adaptation of former nurses' home at junction of Southey Hill and Northlands Road for use as a mental health hostel—Direct Labour. Estimated cost £1,100 (all recommended).

Southampton.—Following for B.C.: Improvements to lavatories, etc., at St. Jude's C.E. Infants' School—King and Webb, 12 Rowhams Road, Southampton, £3,220 (recommended); Lawrence Jones and Partners, £3,298; John Lewis Building, Ltd., £3,972; Mullen and Lumsden, Ltd., £4,148; G. E. Prince and Son, Ltd., £4,469; L. S. Tiffin, £4,535.

Erection of a second Terrapin two-classroom temporary annexe at Regent's Park Secondary School—Terrapin, Ltd., Haddon House, 2-4 Fitzroy Street, London, W.1, £2,711; public conveniences at Hoglands—G. Carter and Sons, Ltd., £3,495; pavilion at Stoneham Lane (West) detached school playing field—A. S. Stride, £12,548; replacement of retaining wall at Target Inn, Bursledon Road—Baillie and Edwards, Ltd., 1 The Avenue, Southampton, £2,314; rebuilding of buttress at God's House Tower—Garrett and Hayson, 105 East Street, Southampton, £1,092 (recommended).

Southport, Lancs.—Following for B.C.: Provision of lavatory accommodation at Churchtown Primary School and Crossens C.E. Primary School—T. Southworth and Sons, Ltd., 142 Virginia Street, Southport, £1,545 and £2,750, respectively (recommended).

Erection of the Industrial and Training Centre at Ainsdale—David Lesley (Contractors), Ltd., 20 Tithebarn Street, Liverpool, 2, £37,765; reinforced concrete piling—West's Piling and Construction Co., Ltd., West Drayton, Middx., £2,168 (recommended, subject to Ministry approval).

Spennborough, Yorks.—Erection of two shops and flats at Foldings estate, Scholes, for B.C.—Gregory Housing, Ltd., 21 Farncombe Road, Worthing, £5,933.

Startforth, Yorks.—Erection of 12 coalhouses on the Mickleton housing estate for R.D.C.—J. A. Adamson, Caldwell, £1,220.

Stockport, Ches.—Extensions at Stockport School, phase II, for B.C.—J. J. Oakes and Son, Ltd., 142 Dialstone Lane, Stockport, £27,534 (recommended).

Stoke Newington.—Erection of an office block with a 10-storey block of 29 flats above at Alexandra Theatre site for B.C.—Robert Hart and Sons, Ltd., 121 Victoria Street, London, S.W.1, £116,980 (fixed-price tender, recommended, subject to Ministry approval).

Stoke-on-Trent, Staffs.—Adaptations to dayroom at Westcliffe, for City Council—Direct Labour, £1,135 (recommended).

Stretford, Lancs.—Decoration of school meal kitchen at St. Mary's School, for B.C. Hardwicks (Manchester), Ltd., 8, ... port Road, Manchester, 12, £1,645.

Stretford, Lancs.—Restoration, conversion and improvement of 11 houses in Hurst Road and Seymour Grove, for B.C. L. and M. Karudansky, Chorlton-cum-Hardy, Manchester, 21, £6,211 (recommended).

Sunderland, Dur.—Improvements to sanitary annexes at Cherry Knowle Hospital, for Newcastle Regional Hospital Board. G. T. Brown and Son, architects, 14 Grange Terrace, Stockton Road, Sunderland—J. and T. Parker, Ltd., St. Oswald's House, Sunderland.

Trimdon Grange, Dur.—Renewal of floors at County Junior Mixed School for C.C.—H. Hewitt and Sons, Ltd., Haswell, £1,417 (recommended).

Wallsend, Northumb.—Office and factory extension for J. and E. Hall, Ltd., Dartford—Fordyce Brothers, Dartford.

Walthamstow, Essex.—Following for B.C.: Annual renovations at (a) Wm. Morris Technical School, (b) Wm. McGuffie Secondary School, and (c) Woodford High School—(a) S. C. Grover, Ltd., Clinton Road, London, E.7, £3,160, (b) Stoneley and Co., Ltd., 258 Green Lane, Ilford, £2,468, (c) Wallace and Wallace, Broomhill Road, Woodford Green, £1,230; renewal of floors at Greenleaf Infants', Mission Grove Junior Mixed and Woodsde Infants' Schools, and Marsh Street Schools' Library—Thompson, Saunders and Co., Ltd., London, E.11, £1,403 (recommended).

Wednesbury, Staffs.—External painting of 190 houses (section B) and 126 houses (section D) for B.C.—G. E. Llewellyn, Broad Lane, Essington, Walsall, and S. B. Whitehouse, 684 Bloxwich Road, Bloxwich, Walsall, respectively (recommended, in lieu of previous tenders).

Welwyn Garden City, Herts.—Erection of a factory for Aviation Developments, Ltd.—Richard Costain (Construction), Ltd., 111 Westminster Bridge Road, London, S.E.1.

West Hartlepool, Dur.—First stage of the St. Teresa's R.C. Primary School. D. Brown, architect, 10 Lambton Road, Jesmond, Newcastle upon Tyne—Tate and Holmes, Ltd., Benwell, Newcastle upon Tyne.

Wheatley Hill, Dur.—Reorganisation at County Junior Mixed and Infants' Schools for C.C.—Pearson and Phelan, Durham, £3,483 (recommended).

Wilton, Wilts.—Erection of six lock-up garages at Churchill Court, Fancy Road, for B.C.—R. Moulding and Sons, Ltd., Wilton, £1,580.

Wolverhampton, Staffs.—Following for B.C.: (a) Alterations to form Bushbury community centre, (b) improvements of toilet and staff accommodation at Woden Primary Schools, (c) alterations to form additional teaching spaces at Northcote Secondary School, (d) erection of six shops and flats at Brooklands Parade, Willenhall Road (North) estate, (e) improvement of two houses in Jameson Street—Direct Labour, (a) £1,500, (b) £5,612, (c) £800, (d) £25,636, and (e) £983 (subject to Ministry approval).

Erection of changing rooms and tea rooms at Bantock Park—Biddulph and Thrift, Ltd., Frost Street, Bilston, £7,550; construction of a boilerhouse, access road works and a water supply main in connection with the

digester heating scheme at Barnhurst Works—M. A. Boswell (Contractors), Ltd., 124 Compton Road, Wolverhampton, £5,714.

Yorkshire.—Reconstruction of colliery buildings and installations for National Coal Board at Shirebrook Colliery—J. L. Kier and Co., Ltd., 7 Lygon Place, London, S.W.1, £252,000.

DEMOLITION

Ashton-under-Lyne, Lancs.—Demolition of 34-50 and 50a Mount Street, for B.C.—J. Dean, Ashton-under-Lyne, £80.

Cheltenham, Glos.—Demolition of 15, 17, 21, 37 and 39 St. James's Street, for B.C.—Pickfords Demolition and Construction, £57 (recommended).

Dewsbury, Yorks.—Demolition of various slum properties for B.C.: (Contract 45) 17 houses—Ace Asphalts, Ltd., Dewsbury, £155; (46) eight houses—Ibbittson Bros., Batley, £300; (47) 18 houses—B. Gill, Bradford, £252 (recommended).

Dorking, Surrey.—Demolition and building required for providing an access through 49 West Street, to a car park site at the rear, for U.D.C.—John Husband and Co., 29 Lechford Road, Horley, Surrey, £1,425 (subject to Ministry approval).

Hawarden, Ches.—Demolition of 11 houses and other buildings, Derby Road, Caergwile, near Wrexham, for R.D.C. W. M. Wynne, Cambria House, Rhosrobin, Wrexham, £225.

London.—Following for City of London Corporation: Demolition and site clearance works in London Street in preparation for construction of an open space—Willment Bros. Ltd., Baltic Wharf, Waterloo Bridge, London, S.E.1, £3,929 (recommended); Charles Griffiths, Ltd., £5,676; Fitzpatrick and Son (Contractors), Ltd., £5,276; Mowlem (Civil Engineering), Ltd., £4,908; Gee, Walker and Slater, Ltd., £4,368; Goodman, Price, Ltd., £4,276.

Demolition of 8-13 New Street Square and 2 Robin Hood Court—Willment Bros., Ltd., £3,752 (recommended); Goodman Price, Ltd., £4,096; Charles Griffiths, Ltd., £3,982; Gee, Walker and Slater, Ltd., £3,762.

Roche, Lancs.—Demolition of following for B.C.: 25-31 St. Mary's Gate—W. Sutcliffe, Roche, £165; 139a Yorkshire Street—T. B. Tomlinson, Heywood, £40 (both recommended).

Sheffield.—Demolition of the following for City Council: Buildings at rear of 31-33 High Street and property known as Surrey Vaults, West Bar—Sheffield and Rotherham Dismantling Co., Ltd., 114 Abbeyfield Road, Sheffield, 4, £900 and £100, respectively; 187-205 Duke Street, 223 Bernard Street and 2 Bevis Street, and 36 properties in Maltravers Road, Bungay Street, South Street and Granville Lane—S. Williams, £150 and £300, respectively; garage and workshop premises in Grove Street—Sheffield and Rotherham Dismantling Co., £60 (all recommended).

Stockport, Ches.—Demolition of properties at John Street area and other buildings for B.C.—J. Stephens and Co., Harwood Road, Heaton Moor, Stockport, £1,583 (recommended).

Swinton and Pendlebury, Lancs.—Following for B.C. Demolition of houses in New Street, Manchester Road, Clifton, Melbourne Street and Old House at Home, Pendlebury—P. Hynes, £354; 331 Bolton Road, Pendlebury—N. Jenkinson, £20 (both recommended).

ELECTRICAL

Barrow-in-Furness, Lancs.—Electrical re-wiring at Risedale County Secondary School for B.C.—Hartley and Bramhall, Ltd., Hindpool Road, Barrow-in-Furness, £2,042.

Blackpool, Lancs.—Electrical installation at the Board's head offices, for the Fylde Water Board—Bennison and Co. (Blackpool), Ltd., 69 Bond Street, Blackpool.

Cardiff.—Electrical installations at Windsor Clive School and Stacey County School for City Council—D. and D. (Cardiff), Duke Street, Arcade Chambers, Cardiff, £1,760, and W. Edwards (Penarth), Ltd., 71 Windsor Road, Penarth, £2,035 (recommended).

Dewsbury, Yorks.—Electrical works for erection of dwellings on the Batley Carr redevelopment area 1 for B.C.—Hammerton and Waring, Ltd., 7 Leeds Road, Dewsbury, £1,091.

Dungeness, Kent.—Supply and installation of all functional electrical equipment for the new Trinity House Lighthouse for Trinity House Corporation—Pelapone, Ltd., Slack Lane, Derby.

Gateshead, Dur.—Electrical work at Technical College (stage 3) for B.C.—Direct Labour, £11,700.

Northumberland.—Electrical work at new Newbiggin Hall County Secondary and County Primary School for C.C.—F. Reid Ferens and Co., Ltd., Newcastle upon Tyne. Estimated cost £14,000.

Peterborough.—Electrical installations in 34 dwellings at Gunthorpe housing estate and four flats at Keeton Road, for City Council—M. F. Hansen, £905 (recommended).

Sheffield.—Supply, installation and maintenance of traffic control light signals at junction of Mansfield Road, Hollybank Road and Hollinsend Road for City Council—Siemens and General Electric Railway Signal Co., Ltd., East Lane, Wembley, Middx., £1,377 (recommended).

Southport, Lancs.—Following at The Orchards, Ainsdale, for B.C.: Electrical installations—Maiden Estates, Ltd., 24 Mount Pleasant, Liverpool, 3, £3,185; supply and installation of an electric passenger lift, complete with push-button door operation—H. Breakell and Co. (Blackburn), Ltd., Whitebirk Drive, Blackburn, £1,464 (recommended).

Electrical installation at the Industrial and Training Centre, Ainsdale—Merseyside and North Wales Electricity Board, Southport, £1,162 (recommended, subject to Ministry approval).

Stockport, Ches.—Following for B.C.: Electrical installation at Brinnington Neighbourhood Unit, contracts 47 and 48a—H. P. Dowell and Sons, Market Street, Hayfield, Stockport, £2,040, and Heaton Mersey Electrical Co., Ltd., £3,325, respectively (recommended, in lieu of previous tenders).

Electrical installation at Newlands Home—Hallams (Electrical Contractors), Ltd., 143 Buxton Road, Manchester, £2,360 (recommended).

Stockton-on-Tees, Dur.—Electrical work for alterations to provide operating theatre suite at Stockton and Thornaby Hospital, for Newcastle Regional Hospital Board—Graham Brothers, Zetland Place, Middlesbrough, £1,764.

Stoke-on-Trent, Staffs.—Electrical installations at (a) Abbey Hulton, (b) Smallthorne and (c) Norton Community Halls, for B.C.—(a) E. Holloway, Ltd., 18 Hartshill Road, Stoke-on-Trent, £1,115, and H. Burton (Stoke-on-Trent), Ltd., 16 Liverpool Road, Stoke-on-Trent, (b) £1,080 and (c) £1,080 (recommended).

Walthamstow, Essex.—Electrical installation at William McGuffie Secondary School for B.C.—London Electricity Board, £1,039 (recommended).

FENCING

Dagenham, Essex.—Fencing and gates at Heath Park estate for B.C.—Bell and Webster, Ltd., Essex Road, Hoddesdon, Herts., £3,369 (recommended).

Ipswich, Suffolk.—Supply and erection of concrete posts and chain link fencing to enclose the Congreve Road Recreation Ground for B.C.—Alexander and Walden, Ltd., 32 Tanners Lane, Ipswich, £552.

Washington, Dur.—Erection of fence, demolition of outbuildings, etc., at Fire Station for C.C.—Thompson and Son (Builders), Ltd., Chester-le-Street, £735 (recommended).

GAS AND WATER SUPPLY

Bacup, Lancs.—Installation of a water supply to six farms at Deerpole for B.C.—Direct Labour. Estimated cost £3,800.

Cardiff.—Supply of 15 miles of piping to be used in connection with the Llandeidd water supply scheme for City Council—Stanton Ironworks Co., Ltd., near Nottingham. Estimated cost £400,000.

Cemaes, Pems.—Tegryn water supply improvement scheme for R.D.C.—General Contractor (South Wales), Ltd., Llanelly, £1,151.

Durham.—Construction of trunk main from Castleside to Auton Stile in connection with the Derwent reservoir scheme, for Durham County Water Board. A. C. Wildsmith, consulting engineer—Direct Labour, £692,000.

Galway, Eire.—Supply and installation of duplicate three-phase electric motors, horizontal centrifugal pumps and chlorination unit at Ballymoe for C.C. H. C. L. O'Connor, consulting engineer, 4 St. Francis Street, Galway—Roche and McConnell, Ltd., 11 Lower Mercer Street, Dublin, £1,352.

Northallerton, Yorks.—Laying of 2,250 yd. of 9 in. water main for U.D.C. A. J. Hardy-King, surveyor—W. J. Glossop and Sons, York.

Southampton.—Supply of following for the 18 in. diameter trunk water main from Cobden Bridge to Sholing for B.C.: Straight pipes and special castings—Clay Cross (Iron and Foundries), Ltd., Chesterfield, £34,496; steel pipes—South Durham Steel and Iron Co., Ltd., Stockton-on-Tees, £600;

sluice valves and air valves—J. Blakeborough and Sons, Ltd., Brighouse, £778; underpressure connections—E. Pass and Co., Ltd., Denton, £363 (recommended).

Thirsk, Yorks.—Supply and laying of the following for R.D.C.: 4,500 lin. yd. of 9 in. diameter class C pipes; 19,450 lin. yd. of 6 in. diameter class C pipes in three mains; 5,465 lin. yd. of 3 in. diameter class C pipes in two mains, together with valves, fittings and other ancillary works as extensions to the existing mains network. D. H. Moore, engineer, 12 Valley Bridge Parade, Scarborough—John O'Dea, Ltd., Lawnswood, Leeds, 16, £62,252 (accepted); R. and C. T. Whitehead, £67,790; Pavlov Construction Co., Ltd., £94,354; P. J. Mangan and Co., Ltd., £76,774; Kenyon's (Civil Engineers), Ltd., £75,260; Tarslag, Ltd., £89,866; Conduit Construction Co., Ltd., £68,167; Squire W. Swift, Ltd., £62,789; Edgar Lawson, Ltd., £71,778; William Press and Son, Ltd., £77,641; J. G. Wigley, £63,100; Rama Construction Co., Ltd., £71,191. Work commencing Aug. 22.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Havant and Waterloo, Hants.—Repairs to timber groynes at Eastoke, Hayling Island, for U.D.C. The works consist of the replacement of approximately 15 piles, 450 lin. ft. walings and 2,000 lin. ft. of plank, some of which is held in stock—Austen Shivers, Ltd., Orestan Lane, Effingham, Surrey.

Jarrow, Dur.—Annual survey and overhaul, engine room improvements and repair of pontoon and gangway at Howdow Ferry for C.C.—R. B. Harrison and Son, Ltd., Bill Quay, Felling, 10, £10,240 (recommended).

Southport, Lancs.—Repairs to structural steelwork at the pier for B.C.—Newtown Steelwork Co., Ltd., King Street, Burnley, £2,445 (recommended).

HEATING AND VENTILATING

Birmingham.—Following for City Council—A. G. Sheppard Fidler, City architect: Heating installation in Oldknow Mixed School—Steels Engineering Installations, Ltd., 172 St. Paul's Road, Balsall Heath, Birmingham, 12, £5,798; mechanical services for Westminster Road Primary School—Birmingham Heating and Pipework, Ltd., 70 Hamstead Road, Birmingham, 19, £6,292; renewal of heating system in the William Murdoch Secondary School—B. Whitehouse and Sons, Ltd., 247 Monument Road, Edgbaston, Birmingham, 16, £13,560.

Cardiff.—Installation of heating at Albany County School, for City Council—Heating (Cardiff) Ltd., £6,040 (recommended).

Chester-le-Street, Dur.—Engineering services at General Hospital for Newcastle Regional Hospital Board—Rowells (1924), Ltd., Byron Street, Newcastle upon Tyne, £15,434.

Durham.—Central heating installation at Neville's Cross County School for C.C.—H. Fairclough (Heating), Ltd., Durham, £1,145 (recommended).

Sheffield.—Supply and installation of a stand-by boiler at Graves Park Nurseries, for City Council—Wright Bros., Ltd., Sheffield, £1,232 (recommended).

Southport, Lancs.—Supply and installation of 14 overhead gas heaters and credit meter at the Market Hall, for B.C.—North Western Gas Board, £916 (recommended).

Stockton-on-Tees, Dur.—Mechanical engineering services for alterations to provide operating theatre suite at Stockton and Thornaby Hospital, for Newcastle Regional Hospital Board—Rowells (1924), Ltd., Byron Street, Newcastle upon Tyne, £3,040.

Stoke-on-Trent, Staffs.—Installation of a steam heating system and ventilation at the first-class bath at Hanley, for City Council—Stewarts (Hanley), Ltd., Goodson Street, Hanley, Stoke-on-Trent, £1,020 (recommended).

Walthamstow, Essex.—Heating installation at Woodside Infants' School for B.C.—H. Humphrey and Co., Allan Buildings, Leonard Street, London, E.C.2, £2,173 (recommended).

Wolverhampton, Staffs.—Electrically heating the Art Gallery for B.C.—Hartley Installations, Ltd., £2,656.

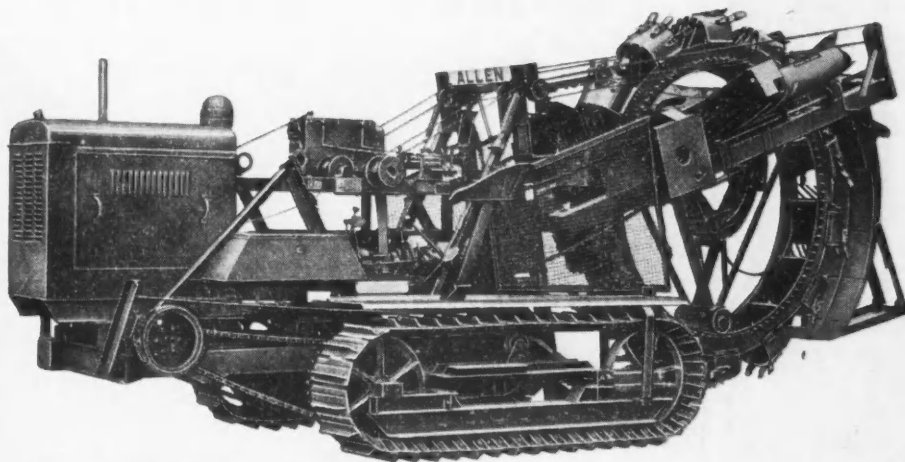
HOUSING SCHEMES

Armagh.—Eighty-six dwellings and five garages, with road and site works at Drumarg, for U.D.C. G. P. and R. H. Bell, architects, Solitude, Lurgan—McDonagh Bros., Donaghmore, Co. Tyrone, £144,946 (recommended); McKinney and Co., £151,897; P. Carvill and Sons, £152,797; Farrens, Ltd., £164,486.

Ashton-under-Lyne, Lancs.—Following for B.C.: Three-storey block of six flats and a three-storey block of six shops and 12 flats at Hazelhurst—Middleton and Co.

- (Contractors), Ltd., Preston, £64,211; 16 houses, 54 three-storey flats and 90 10-storey flats at Charlestown—J. Gerrard and Sons, Ltd., Swinton, Manchester, £381,579 (recommended, subject to Ministry approval).
- Barnet, Herts.**—U.D.C. to prepare plans for the erection of 24 old people's dwellings at Mayhill Road, with accommodation for a resident warden.
- Bicester, Oxon.**—Fifty-four Homeville traditional houses at Western development for U.D.C.—F. J. Minns and Co., Ltd., 67 St. Aldgates, Oxford.
- Birmingham.**—One hundred and eight dwellings and 50 lock-up garages, Lower Beeches Road, Egghill Lane estate, contract 717 for City Council. A. G. Sheppard Fidler, City architect—Wates, Ltd., 94 Hagley Road, Edgbaston, Birmingham, 16, £255,608.
- Camberwell.**—Following for B.C.: A seven-storey block of 28 flats on Abbey site, Honor Oak Rise—J. and R. Roof, Ltd., 679 Barking Road, London, E.13, £90,848; 14 S/2 flats at 15 Grove Park—Direct Labour, £33,883 (both recommended).
- Chesterfield, Derbys.**—Seventy traditional-type brick-built dwellings on the Peveril estate for B.C.—E. A. and H. A. Tomlinson, Ltd., 62 High Street, Beighton, Sheffield, £88,353. Work to commence Sept. 1.
- Essex.**—Following police houses, For C.C.: (1) Two pairs, Chatteris Avenue, Harold Hill; (2) two pairs, Rosslyn Avenue, Harold Wood—(1) A. B. Bryant (Builders), Ltd., 1 Ramsden Heath, Essex, and (2) S. H. Lansdel and Sons, Ltd., Station Road, Upminster.
- Forfar, Angus.**—Fruithill housing scheme second development of 24 houses for B.C. D. I. Burchell and Partners, quantity surveyors, Clydesdale Bank Buildings, Forfar—Excavator, brick and concrete—Laird Bros., Forfar, £14,849; tiler and roughcast work—Wm. Brand and Son (Arbroath), Ltd., £1,528; electrical work—Roger and Thompson, Kirriemuir—£934; plaster and cement work—James Russell, Forfar, £969; carpenter, joiner and glazier—D. C. McLeay, Forfar, £7,977; plumber work—A. D. Mitchell and Sons (Plumbers), Ltd., £3,239.
- Gantham, Lincs.**—Thirty-three bungalows and 60 houses in the Earlsfield area for B.C.—W. J. Roberts (Bottesford), Ltd., Bottesford, Nottingham, £135,825.
- Harlow, Essex.**—Two hundred and three dwellings and 69 garages at Great Parndon, area 67, for Development Corporation. Victor Hamnett, executive architect.—Rush and Tompkins, Ltd., 109 Station Road, Sidcup, Kent, £350,000.
- Heckmondwike, Yorks.**—Twelve flats for U.D.C.—Gregory Housing, Ltd., 21 Farncombe Road, Worthing.
- Hereford.**—Forty-four houses at Moreton-on-Lugg for R.D.C.—Luggvale Construction Co., Ltd., 14 Belmont Road, Hereford, £83,280 (subject to Ministry approval).
- Irlam, Lancs.**—Thirty houses for U.D.C.—Gregory Housing, Ltd., 21 Farncombe Road, Worthing.
- Kensington.**—Twenty-two bed-sitting room flats on sites of 144-186 Portland Road for B.C.—Walter Llewellyn and Sons, Ltd., 79 Davies Street, London, W.1, £35,484 (recommended).
- Lambeth.**—Fifty-two flats, 12 maisonnettes and one shop in four blocks and 39 garages at Studley Road, stage 1. Sir Launcelet Keay, Basil G. Duckett and Partners, architects, 80 Wimpole Street, London, W.1—Pauling Construction Co., Ltd., 26 Victoria Street, London, S.W.1, £170,000.
- London.**—Twelve luxury flats at Eaton Square and luxury flats at 18-21 Hyde Park Gardens. Raglan Squire and Partners, architects, 3 Hobart Place, London, S.W.1—Pauling Construction Co., Ltd., 26 Victoria Street, London, S.W.1, £180,000 and £150,000, respectively.
- London.**—Erection of good-class houses at Hamilton Terrace. Raglan Squire and Partners, architects, 3 Hobart Place, London, S.W.1—Pauling Construction Co., Ltd., 26 Victoria Street, London, S.W.1, £40,000.
- Matlock, Derbys.**—Twenty Homeville traditional flats at Darley Dale and three Homeville bungalows at High Street, Bonsall, for U.D.C.—J. Moorhouse, 45 Heanor Road, Codnor, Derby.
- Northampton.**—Two 12-storey blocks of flats in the Althorpe Street and Herbert Street area, for central area development scheme, for B.C.—Tersons, Ltd., 4 Dollis Park, Finchley, London, N.3, £289,228. Brian Bunch, borough architect and town planning officer; Ernest Howard and Son, quantity surveyors, 24 Dergate, Northampton; and W. V. Zinn and Associates, consulting engineers, Collingham House, Eagle Street, Southampton Row, London, W.C.1. Work just commenced.
- Northern Ireland.**—Following for Housing Trust: Sixty-two dwellings, together with ancillary works, at Greenisland 2—James Rogan and Sons (Ballyclare), Ltd., Hillhead Road, Ballyclare.
- Sixty-four dwellings, one shop and seven garages, together with ancillary and engineering works, at Whitehead 3—The Unit Construction Co., Ltd., Church View, Holywood.
- Electrical, plumbing and patent flooring sub-contracts in 40 dwellings at Armagh (Callan Street)—electrical—E. Connolly, 25 Lower English Street, Armagh; plumbing—Robert Stevenson and Co., 21 William Street, Lurgan; patent tile flooring—The Marley Tile Co., Ltd., Hyde Park, Mallusk.
- Oldbury, Worcs.**—Two hundred and ten dwellings in three blocks of flats, each of 13 storeys, for B.C.—G. Wimpey and Co., Ltd., Hammersmith Grove, London, W.6. Estimated cost £450,000.
- Padiham, Lancs.**—Twenty-two houses and bungalows on the Adamson Street site for U.D.C.—Drury Construction Co., Ltd., Birkdale Drive, Preston, £33,433.
- Peterborough.**—Four flats at Bluebell estate extension for City Council—S. B. Fairchild and Sons, Ltd., 11 Welland Road, Peterborough, £4,264 (recommended).
- Preston, Lancs.**—Private housing development at Highgate Park estate, Fulwood. Grenfell Baines and Hargreaves, architects, 12 Guildhall Street—Rush and Tompkins, Ltd., 109 Station Road, Sidcup, Kent, £600,000.
- Richmond, Yorks.**—Twenty bungalows, a warden's house and 20 other houses at Brompton for R.D.C.—F. Shepherd and Son, Lion House, Pottergate, Richmond, £66,977 (subject to Ministry approval).
- Rochdale, Lancs.**—Eight additional dwellings on the former public house site 2, Kirkholme, for B.C.—Roy and Partners, Ltd., 64 Blackfriars Road, Salford, 3, £12,710 (extension of contract, recommended).
- Rothwell, Yorks.**—Thirty-two houses for sale on the Styebank Lane for U.D.C.—T. C. Surbey, 46 Pinfold Lane, Methley, £50,472 (in lieu of previous tender).
- Rowley Regis, Staffs.**—Fifty-two houses and 20 garages fronting City Road for B.C.—Direct Labour, £76,897 (subject to Ministry approval).
- Southampton.**—Following for B.C.: Completion of 84 type F flats at Thornhill, contract B.312a—W. T. Nicholls (Southern), Ltd., Tennyson Road, Portsmouth, Southampton, £75,898; piling work at Lansdowne Hill—McKenney Foundations, Ltd., £7,455 (recommended).
- Stratford-upon-Avon, War.**—Twenty-eight flats, 35 houses and 15 bungalows for

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- R.D.C.: Gregory Housing, Ltd., 21 Farncombe Road, Worthing, Sussex.
- Swaffham, Norfolk.**—Four Homeville traditional bungalows at Pleasant Row for U.D.C.—Homeville Co., Ltd., 12 Craufurd Rise, Maidenhead, Berks.
- Totnes, Devon.**—Thirty-three old people's bungalows and 16 houses at Culverdale estate, for B.C.—Staverton Contractors, Ltd., Totnes, £83,139 (subject to Ministry approval).
- Tyldesley, Lancs.**—Sixteen bungalows for U.D.C.—Gregory Housing, Ltd., 21 Farncombe Road, Worthing.
- Vaynor and Penderyn, Brecons.**—Twenty-nine houses for R.D.C.—Gregory Housing, Ltd., 21 Farncombe Road, Worthing, Sussex.
- Watford, Herts.**—Fifty-two houses and 28 garages at Meriden estate for B.C.—A. E. Islip and Co. (Builders), Ltd., 50 Station Road, Harrow, Middx., £86,644 (recommended).
- Wenlock, Salop.**—Thirty-four houses, two blocks of three-storey flats and maisonnettes and eight lock-up garages at Hickley Bank for B.C.—R. Lewis, Dawley Road, Wellington, Salop, £79,824.
- Wigan, Lancs.**—Thirteen houses in Fleet Street, Pemberton, for B.C.—Direct Labour, £18,971.
- Wood Green, Middx.**—Fifteen flats for B.C.—Gregory Housing, Ltd., 21 Farncombe Road, Worthing, Sussex.
- Yeovil, Som.**—Following for R.D.C.: Ten houses at Hill View, Mudford.—Herbert W. Tily and Sons, Ltd., 64 Broad Street, Chipping Sodbury, Bristol, £17,740; six bungalows at Minchington.—W. Rogers and Sons, 20 Hill Grove Avenue, Yeovil, £9,087; four bungalows at West Coker.—Alford Bros., Ltd., Hambridge, Langport, Som., £6,913.

MATERIALS AND SUPPLIES

- Dudley, Worcs.**—Supply of 1,000 2½ cu. ft. B.S.S. type ashbins and 2,000 dustless loader bins for B.C.—Brettell and Shaw, Ltd., Quarry Bank, Cradley Heath, £1,701 and £5,869, respectively (recommended).
- Durham.**—Supply of following for C.C.: P.V.C. sheet flooring—Durastic, Ltd., Newcastle, £9,300; rubber flooring—Leeds Floorcraft Co., Leeds, £8,992; galvanised steel tubing to central repair depot, Framwellgate Moor—Stewarts and Lloyds, Ltd., Birmingham, £1,404 (recommended).

Rochdale, Lancs.—Supply of 3,000 2½ cu. ft. dustbins and lids and 200 similar dustbins without lids for B.C.—Rochdale Equitable Pioneers Society, Ltd., Pinfold Branch, 21 Trafford Street, Rochdale, £5,005.

Swinton and Pendlebury, Lancs.—Supply of following for Clifton development scheme (61-84 dwellings) for B.C.: carcassing timbers—Parkers, Ltd., Manchester, £4,050; flooring boards—Morgan Wallwork, Ltd., Manchester, £3,075; joinery sundries—Morgan Wallwork, Ltd., Manchester, £768; roof trusses—Evans Bellhouse, Ltd., Manchester, £1,061; breeze partition blocks—A. Stafford, Ltd., Swinton, £518; doors—Hills and Sons, Ltd., Stockton-on-Tees, £2,057; copper tube—Rogers and Jackson, Ltd., Wrexham, £1,483.

Wolverhampton, Staffs.—Timber dressers for dwellings at Deans Road estate and Thornton Road, for B.C.—West End Wood Machinery Co., Ltd., Wolverhampton, £1,499.

PLANT AND MECHANICAL TRANSPORT

Barrow-in-Furness, Lancs.—Supply of new power wagon for B.C.—R. W. Symons, Ltd., Abbey Road, Barrow-in-Furness (recommended).

Blackpool, Lancs.—Supply of a diesel-powered tractor digger/loader for Fylde Water Board—F. H. Burgess (Preston), Ltd., Moor Hall Works, Brook Street, Preston.

Newcastle upon Tyne.—Reorganising engineering services at General Hospital for Newcastle Regional Hospital Board—North of England Engineering and Electrical Co., Ltd., Ferryhill, £14,687.

Peterborough.—Supply of new weighbridge at Corporation Depot for City Council—W. and T. Avery, Ltd., Soho Foundry, Smethwick, £1,451 (recommended).

Rochdale, Lancs.—Supply of a 16-18 cu. yd. refuse collection vehicle for B.C.—Shelvoke and Drewry, Ltd., Letchworth, Herts., £2,650.

Rushden, Northants.—Supply of (1) Loading shovel (tractor-mounted); (2) refuse collection vehicle (14-18 cu. yd.); (3) pick-up van (5-10 cwt.), for U.D.C.—(1) Weatherill, Ltd., Welwyn Garden City, Herts., £1,933; (2) Shelvoke and Drury, Letchworth, Herts., £2,337; (3) Townsends Garage, High Street, South Rushden, £580.

Scunthorpe, Lincs.—Supply of a Massey-Ferguson tractor/shovel/digger and a 4-ton Morris tipping lorry for B.C.—Edwards

Motors (Doncaster), Ltd., Station Garage, Doncaster, £1,818, and Kennings, Ltd., York Road, Doncaster, £1,020, respectively (recommended).

Sheffield.—Supply of a Morris Commercial 3-ton diesel tipping lorry for City Council—Kennings, Ltd., Leadmill Road, Sheffield, 1, £1,079 (recommended).

Stoke-on-Trent, Staffs.—Supply of following for City Council: Two Dennis Tippax 18/20 cu. yd. two-way tipping refuse collecting vehicles—Dennis Bros., Ltd., Guildford, £2,495 each; one Bedford J3 type chassis and cab—T. Pratt, Ltd., Victoria Road, Fenton, Stoke-on-Trent, £780; one Clean Line concrete mixer—Blaw Knox, Ltd., 90-94 Brompton Road, London, S.W.8, £812 (recommended).

Walthamstow, Essex.—Supply of the following for B.C.: Scaffolding and fittings—London and Midland Steel Scaffolding Co., Ltd., 6 Lygon Place, London, S.W.1, £1,372; one Karrier Yorkshire road sweeper/collector—Ray Powell, Ltd., 374 Eastern Avenue, Ilford, £2,978; one 3-ton Scarab mechanical horse—Keith and Boyle (London), Ltd., 80 Clapham Road, London, S.W.9, £834 (recommended).

PLAYING FIELDS, PARKS, ETC.

Camberwell.—Works at Honor Oak sports ground and extensions to the Crematorium Garden of Remembrance, for B.C.—Playing Field Construction Co., Ltd., £6,386 (recommended).

Morecambe, Lancs.—Development of playing fields and erection of fencing at Torrisholme County School for the Co. E.C.—C. A. Wilding and Co., Ltd., Kimberworth, £4,986.

St. Albans, Herts.—Provision of open space at Foxcroft, London Road estate for City Council—Messrs. Greensward, £1,125 (recommended).

Sheffield.—Laying out playing fields at Hinde Home Secondary Girls' School for City Council—C. A. Wilding and Co., Ltd., Hill Top Lane, Kimberworth, Rotherham, £17,716 (recommended).

RAILWAY ENGINEERING

British Railways.—Following contracts placed: Eastern Region:

Repairs to overbridge 124 between Killamash West and Woodhouse Mill—Thomas Fletcher and Co., Ltd., Forest Road, Mansfield, Notts.

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Supply and erection of wagon turn-tipper, haulage winch and discharge chute at Keadby Jetty—Strachan and Henshaw Ltd., Steelhoist Works, St. Philips, Bristol, 2.

Construction of workshop and staff amenity building at Colchester Diesel Depot—Holliday and Greenwood, Ltd., 11 Buckingham Palace Gardens, London, S.W.1.

Reconstruction of underline bridge 81 over the Great Northern main line between Tuxford Central and Fledborough—W. and C. French, Ltd., South Brink, Wisbech, Cambs.

Construction of inspection pits, manufacture, laying and fixing of precast concrete deck slabs, elevated walkways, services, etc., and construction of ducts, apron and roadway at new Carriage Servicing Depot, East Ham—George Wimpey and Co., Ltd., Hammersmith Grove, London, W.6.

Provision of earthworks, construction of coal stacking area, road and paths, services, fencing, etc., and strengthening for new track over culverts at Harlow Hill Station—David Chaston, Ltd., Essex Road, Hoddesdon, Herts.

Supply and erection of electrical installations at Tilbury (Riverside) and East Tilbury Stations—James Scott and Co. (Electrical Engineers), Ltd., 20 Grosvenor Place, London, S.W.1.

Station improvements at Billericay, Wickford, Rayleigh, Hockley, Rochford and Prittlewell Stations—Haymills (Contractors), Ltd., Empire House, Hanger Green, Ealing, London, W.5.

North Eastern Region:

Supply of heavy duty filter washing and oiling equipment for use in connection with maintenance of main line diesel locomotives at Holbeck Motive Power Depot, Leeds—Intermit, Ltd., Bradford Street, Birmingham.

Provision of a motorised pipe bending machine for York Carriage Works—Hilmore, Ltd., Stevenage, Herts.

Concreting of the area outside the timber store at Shildon Wagon Works—G. Stephenson (Builders and Contractors), Ltd., Holdforth Works, St. Andrew's Place, Bishop Auckland.

Alterations to ventilation installation in the brass foundry at North Road Works, Darlington—S. Maclean and Son, Ltd., Hadrian Works, Back Heaton Park Road, Newcastle upon Tyne, 6.

Surfacing of the stacking area for traders' coal at Halifax North Bridge Goods Depot—J. W. Mitchell and Sons, Ltd., Wakefield Gate, Savile Park, Halifax.

Renewal of one of the platforms at Ormesby Station, near Middlesbrough—L. C. Abdale, Building Contractors, Ltd., Weir Street, Darlington.

Installation of a weighbridge in Church Street Goods Yard, Halifax—F. and J. Watkinson, 121 Fenby Avenue, Dudley Hill, Bradford, 4.

Provision of a one-storey prefabricated timber building as an extension to the Chief Civil Engineer's Bridge Office, York—Stephenson Developments (Huddersfield), Ltd., Grosvenor Works, Linthwaite, Huddersfield.

ROADS, BRIDGES AND SITE WORKS

Barnet, Herts.—Patching and surface dressing of carriageways within the urban district, the total area involved being approx. 66,000

super. yd., and other incidental works during 1960-61 for U.D.C.—Wirksworth Quarries, Ltd., 286 Pentonville Road, London, N.1.

Barnsley, Yorks.—Construction of bus loading bay at Broadway Technical Grammar School for B.C.—Tarslag, Ltd., Rotherham, £2,488 (recommended).

Berwick-upon-Tweed, Northumb.—Resurfacing of various roads approximately 20,000 sq. yd. in Resmat cold asphalt for B.C.—Resmat Asphalt, Ltd., South Bank Road, Cargo Fleet, Middlesbrough.

Bradford, Yorks.—Roads and sewers and general site works on the Allerton housing estate, section E, for City Council—Direct Labour (recommended). Estimated cost £38,698.

Camberwell.—Paving works in Grove Lane, Dulwich Road, Pilkington Road, Lacon Road, Chadwick Road and Danby Street for B.C.—Fitzpatrick and Son (Contractors), Ltd., 455 Old Ford Road, London, E.3, £9,756 (recommended).

Carmarthenshire.—Road and bridge works at Cwmtynewydd, near Cross Hands, London-Fishguard trunk road, A.48, for C.C., comprising the reconstruction and widening of the existing masonry arch bridge in concrete, construction of mass concrete abutments and wing walls with reinforced deck, and reconstruction of the existing approach road. J. L. Richards, county engineer and surveyor—H. B. Thomas, Brewery Buildings, Brewery Road, Carmarthen, £12,500. Work to commence shortly.

Carshalton, Surrey.—Roadworks, Wrythe Lane, for U.D.C. F. J. Kennedy, engineer and surveyor—H. V. Smith and Co., Ltd., Walkden House, Melton Street, London, N.W.1, £8,109. Work commencing September.

Cheadle and Gatley, Ches.—Making-up of each of the following streets for U.D.C.: (a) Beechfield Road, Cheadle Hulme, (b) Firs Road and Firs Grove, Gatley. Duncan S. Graham, engineer and surveyor.—(a) Lowe Millward and Scully, Ltd., 6 Rostherne Road, Wilmslow; and (b) Hulton Estate, Ltd., Firs Road, Styal Road, Gatley, Ches.

Cheltenham, Glos.—Road works 1960/61 for B.C.: Resurfacing of carriageways—Amalgamated Roadstone Corporation, Ltd., Chipping Sodbury, Bristol, £8,218; footpath and carriageway reconstruction—Hadsphalitic Construction Co., Ltd., Cheltenham, £9,629 (recommended).

Surface dressing of various roads—Highway Maintenance (1927), Ltd., Bramley, Surrey (recommended).

Consett, Dur.—Private street works at Alston Road and Baxton Road, Bridgehill, for U.D.C.—Wm. Leech (Builders), Ltd., 7-8 St. James Street, Newcastle upon Tyne.

Dewsbury, Yorks.—Reconstruction of Forge Lane (part) (Perseverance Inn to Lees Hall Road), Willans Road, and Sraithwaite Road (Station Road to Headfield Road), for B.C.—Direct Labour, £5,500, £3,190 and £6,974 (recommended).

Dewsbury, Yorks.—Following for B.C.: Preparation and levelling of garage spaces at Moorside Avenue, Princess Lane, Ouzelwell Lane and Heath Square, Chickenley—J. B. Halstead, Dewsbury, £1,288; construction of cul-de-sac for Westtown redevelopment scheme 2—Direct Labour, £2,586 (both recommended, subject to Ministry approval).

Dorking, Surrey.—Following for U.D.C.: Construction of car parks—(i) at rear of 49

West Street and fronting on to Church Street; (ii) in the Sandpit, Reigate Road, at the rear of the Surrey County Council Feeding Centre—(i) Conway and Hart, 149 Croydon Road, Penge, London, S.E.20, £3,603; (ii) Norman Hill Plant Hire, 174 Twickenham Road, Isleworth, Middx., £4,143 (subject to Ministry approval).

Surfacing of 2,000 sq. yd. carriageways and construction of 1,200 sq. yd. of footways, Goodwyns estate—Allmacadams, Ltd., 332 Brighton Road, South Croydon, £2,131 (subject to Ministry approval).

Dudley, Worcs.—Resurfacing of Wellington Road, Market Place and Wolverhampton Street, for B.C.—Tarslag, Ltd., Dunstall Road, Wolverhampton, £12,567 (recommended).

Durham.—Following for C.C.: Supplying and laying asphalt surfacing on trunk and county roads—Limmer and Trinidad Lake Asphalt Co., Ltd., Newcastle, £138,924; supply of artificial stone faced blocks and coping to road improvements at Witton-le-Wear and Redworth—E. Rutherford and Co., Ltd., Barnard Castle, £1,694 (both recommended).

Egham, Surrey.—Realignment and widening of part of Chertsey Lane (A.320), stage 1, for U.D.C.—A. J. Ward and Sons, Ltd., Thorpe Lee Engineering Works, Egham, £23,491.

Eston, Yorks.—Construction of roads and sewers to serve 204 new houses on the Church Lane housing site for U.D.C. N. C. Harrison, surveyor—T. R. Illingworth and Co., Ltd., Peterlee, £36,482.

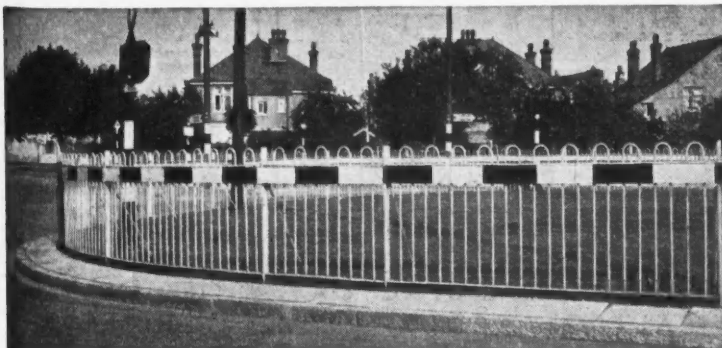
Friern Barnet, Middx.—Resurfacing Colney Hatch Lane, widening Oakleigh Road North and construction of access road, Balfour Grove housing site, for U.D.C.—A. H. Nicholls and Sons, Ltd., Wood Green, N.22, £21,717, £9,421 and £4,419, respectively.

Great Yarmouth, Norfolk.—Making-up Recreation Road, Gorleston, for B.C.—H. A. Holmes and Sons, Ltd., South Ice House Hill, Gorleston, Great Yarmouth, £2,860 (recommended).

Halstead, Essex.—Construction of private street works, etc., at Balls Chase for U.D.C., including site preparation, laying of a surface water sewer, and a 16ft. carriageway and footpath, 6ft. wide one side only. Mitchell, Weston and Partners, architects, 38 Churchgate Street, Bury St. Edmunds, Suffolk.—May, Gurney and Co., Trowse, Norwich, £2,866 (accepted); East Anglian Roadstone and Transport Co., £2,887; Slater Bros. (Glemsford), Ltd., £3,292; The Drybrook Quarries, Ltd., £3,422; R. Joyce, £3,672; Biggs, Wall and Co., Ltd., £4,136. Work to commence Sept. 1.

Harvel, Kent.—Renovation of drive in tarmacadam together with cold bitumen spraying and gritting at Brimstone Wood for L. O. Kekwick—Hodsons, Ltd., Gravesend.

Havant and Waterloo, Hants.—Following for U.D.C.: Construction of approximately 6,400 sq. yd. of footpaths, 8,200 sq. yd. of grass verges and greens, and 2,775 lin. yd. of 6in. by 2in. footpath edging at Purbrook housing site—J. W. Miller and Sons, 7 Weyhill Close, Leigh Park, Havant; provision of 240 lin. yd. of 9in. and 200 lin. yd. of 12in. surface water sewer, 900 lin. yd. of kerbing, 3,000 sq. yd. of 10in. reinforced concrete slab, 6,200 sq. yd. of hot rolled asphalt; surfacing, 1,800 sq. yd. of flexible footway and ancillary works in connection



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- with an improvement to trunk road A.3. from the Deverell Hall to Milk Lane, Waterlooville — Waring (Contractors), Ltd., Hilsa, Portsmouth.
- Hazel Grove and Bramhall, Ches.**—Making-up and completion of Seal Road (part of) and Colwyn Road (part of), Bramhall, for U.D.C. Fleming Andrew, engineer and surveyor—Nortons (Road Construction), Ltd., Whirley, Macclesfield, £3,563.
- Houghton-le-Spring, Dur.**—Tarpaving of playgrounds at Modern School, for C.C.—E. Clarkson, Ltd., East Boldon, £1,765 (recommended).
- Ilford, Essex.**—Resurfacing of paths in parks for B.C.: Allmacadams, Ltd., £1,495 (accepted); Davis, Watson and Elliotts, Ltd., £1,870; The General Asphalt Co., Ltd., £1,568; A. C. W. Hobman and Co., Ltd. (a Val de Travers Associated Company), £2,101; Home Counties Contracting Co., Ltd., £1,582; Keyphalte Surfacing Co., Ltd., £1,571; William F. Rees, Ltd., £1,868; Situsec, Ltd., £1,678; H. V. Smith and Co., Ltd., £1,501; South Lines Tarmacadam Construction Co., Ltd., £1,880; Tarmac (Southern), Ltd., £1,699; Unity Asphalt Co. (London), Ltd., £1,918; Waywarden, Ltd., £1,775.
- Ipswich, Suffolk.**—Construction of a temporary car park at Rope Walk for B.C.—Direct Labour. Estimated cost £1,100.
- Irvine, Ayr.**—Site clearance, construction of sewers with ancillary works and first stage road works for Burnside housing site for 49 houses for B.C. R. W. Morrison, burgh surveyor—Jas. Anderson, Ltd., 46 Waterside, Irvine, £2,819 (accepted); Robert Nixon and Sons, Ltd., 2,866; Sportsworks, Ltd., £3,663; Alan Skelton, Ltd., £4,041; Limmer and Trinidad Lake Asphalt Co., Ltd., £4,858. Work is expected to start in October.
- Kensington.**—Reconstruction of road and lowering of ramp at Wood Lane Depot for B.C.—Geo. Wimpey and Co., Ltd., Hammersmith Grove, London, W.6, £9,962 (recommended).
- Lambeth.**—Rolled asphalt works at Coldharbour Lane for B.C.—Val de Travers Asphalt, Ltd., 21 Old Bailey, London, E.C.4, £1,149 (recommended).
- London.**—Following for City of London Corporation: Paving works for improvement of Fore Street, Moor Lane, Moorfields and Fore Street Avenue—Willment Bros., Ltd., Baltic Wharf, Waterloo Bridge, London, S.E.1, £18,810 (recommended); Val de Travers Asphalt Co., Ltd., £23,435; Limmer and Trinidad Lake Asphalt Co., Ltd., £23,069; William F. Rees, Ltd., £22,892; Highways Construction, Ltd., £21,633; Neuchatel Asphalt, Ltd., £21,285; Howard Farrow, Ltd., £20,154; Fitzpatrick and Son (Contractors), Ltd., £19,215; Mowlem (Civil Engineering), Ltd., £18,845.
- Paving works for construction of the access road to the new cleansing depot and the Zidpark from Upper Thames Street—Willment Bros., Ltd., £7,854 (recommended); William F. Rees, Ltd., £10,988; Howard Farrow, Ltd., £9,555; Fitzpatrick and Son (Contractors), Ltd., £9,215; Mowlem (Civil Engineering), Ltd., £8,570.
- Paving works for reconstruction of Thavies Inn—Willment Bros., Ltd., £8,815 (recommended); William F. Rees, Ltd., £10,336; Fitzpatrick and Son (Contractors), Ltd., £9,793; Howard Farrow, Ltd., £9,702; Mowlem (Civil Engineering), Ltd., £8,824.
- Improvements and reconstruction of Shoe Lane, Stonecutter Street and Farringdon Street, adjoining the Fleet Telephone Exchange—Howard Farrow, Ltd., Bank Buildings, Russell Parade, London, N.W.11, £9,449 (recommended); Val de Travers Asphalt, Ltd., £10,894; William F. Rees, Ltd., £10,238; Fitzpatrick and Son (Contractors), Ltd., £9,906; Willment Bros., Ltd., £9,704; Mowlem (Civil Engineering), Ltd., £9,601.
- Long Eaton, Derbys.**—Following for U.D.C.: (a) Approximately 610 lin. yd. of concrete kerb and channel and of 1,550 super. yd. concrete slabs at Sawley estate—C. Williamson and Co., Ltd., Chilwell, Notts., £2,192; (b) approximately 300 lin. yd. of concrete kerb and channel, 1,250 super. yd. concrete slabs, and 2,500 super. yd. of bitumen macadam surfacing in three streets—two streets—C. Williamson and Co., Ltd., £932 and £1,036; one street—Davies, Watson and Elliotts, Ltd., Aldershot, Hants £626.
- Loughborough, Leics.**—Resurfacing of some 18,700 sq. yd. of carriageway on various roads in the Borough for B.C.—Reliable Roads (Shepshed), Ltd., 30 Charnwood Road, Shepshed, Loughborough, £2,898 (recommended).
- Lowestoft, Suffolk.**—Laying of gravel asphalt in the hollows in Somerleyton Road for B.C.—East Anglian Roadstone and Transport Co., Ltd., 66 Bracondale, Norwich (recommended).
- Middleton, Lancs.**—Footpath reconstruction works—flagging and asphalt for B.C.—M. C. Kennedy and Co., Ltd., 503 Corn Exchange Buildings, Manchester, 4.
- Middleton, Lancs.**—Tarspraying of approximately 22,000 sq. yd. during 1960 for B.C.: (1) Supply of granite chippings; (2) premix basalt/limestone chippings; (3) tar/bitumen binder; (4) labour and plant for the execution of the work—(1) Penmaenmawr and Welsh Granite Co., Ltd., 7 Picton Road, Liverpool, 15; (2) Derbyshire Stone Sales, Ltd., Matlock Derbys; (3) Lancashire Tar Distillers, 74 Corporation Street, Manchester, 4; (4) Road Maintenance Services, Ltd., High Legh, Knutsford, Ches.
- Norham and Islandshire, Northumb.**—Renewal of existing tarmacadam paths in concrete on housing estates at Shoresdean, Horncliffe and Greenway, East Ord, for R.D.C.—Berwick Building Co., Berwick.
- North Ireland.**—Construction of 1,200 lin. yd. of concrete roads and sewers at Belvoir Park, Newtownbreda, for Housing Trust—Stewart and Partners, Ltd., 1/11 Elgin Street, Belfast.
- Oxford.**—Constructional works for the Donnington Road Bridge scheme for City Council—Cementation Co., Ltd., 20 Albert Embankment, London, S.E.11, £309,908 (recommended).
- Peterborough.**—Construction of roads and sewers and laying water mains at Crown Street extension housing estate for City Council—A. H. Lewis and Co., Springfield, Carrington Road, Spalding, £36,622 (recommended).
- Prestwich, Lancs.**—Carriageway resurfacing in hot rolled asphalt, cold asphalt and bituminous macadam on trunk, classified and district roads, for B.C. J. Theo. Kilner, borough engineer. Carriageway resurfacing—Neuchatel Asphalt (Contracting), Co., Ltd., Whip Lane, Pendleton, Salford; footway works—G. Cox and Sons, Fletcher Street, Bolton. Work commencing within three months.
- Rochdale, Lancs.**—Kerbing and flagging works in various roads including the unsurfaced length of Whitworth Road for B.C.—J. F. Goodwin and Co., Ltd., Hyde, £23,200 (recommended).
- Rutland.**—Improvement, one mile east of Ketton, on the Ketton-Tinwell, A.6121, and

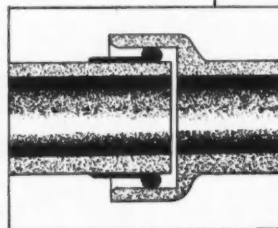
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Gunthorpe Road improvement, A.6003, which is located approximately 2½ miles south of Oakham, on the Oakham-Uppingham road, A.6003, for C.C. J. N. L. Sellick, county surveyor—F. G. Smith and Co. (Asfordby), Ltd., Asfordby, Melton Mowbray, Leics. Work commencing September/October.

St. Albans, Herts.—Roads and sewers at Jersey Farm estate for City Council—R. Davies, Redroofs, Scatterdells Lane, Chipperfield, King's Langley, £11,178 (recommended).

Scunthorpe, Lincs.—Construction of roads and sewers at Westliff estate, stage I, for B.C.—J. E. Churchill, Poplar Farm, Bottesford, Scunthorpe, £12,378 (recommended, subject to Ministry approval).

Southampton.—Site works at Townhill Park, contract S.213, for B.C.—Southern Counties Construction Co., Ltd., 204 London Road, Waterloo, Portsmouth, £121,041 (recommended, subject to Ministry approval).

Stockport, Ches.—Provision of a playground at St. Thomas' C.E. School, Heaton Chapel, for B.C.—H. Fairweather and Co., Ltd., Hyde Works, St. James' Lane, London, N.10, £5,941 (recommended).

Stoke Newington.—Footway repaving during 1960-61 for B.C.—Fitzpatrick and Son (Contractors), Ltd., 455 Old Ford Road, London, E.3, £9,716 (recommended).

Stoke-on-Trent, Staffs.—Making-up of (a) Stross Avenue, Tunstall, etc., and (b) Garfield Avenue, Hanford, etc., for City Council—Roy Beech (Contractors), Ltd., 9 Brook Street, Stoke-on-Trent, (a) £5,154 and (b) £4,482 (recommended).

Stretford, Lanes.—Resurfacing of school playgrounds at Gorse Hill Junior School and Kings Road School for B.C.—Trinidad Lake Asphalt Co. (North Western), Ltd., India Buildings, Water Street, Liverpool, 2, £1,290 and £452, respectively (recommended).

Walthamstow, Essex.—Following for B.C.: Making-up of the Bridge Path (including the red macadam paved footways)—Gabriel (Contractors), Ltd., Enfield, Middx., £2,981; construction of a bridge over the moat at Lloyd Park—A. H. Nicholls and Sons, Ltd., 596 Green Lane, London, N.13, £3,487; making good playgrounds at secondary modern schools—H. V. Smith and Co., Ltd., Walkden House, 3-10 Melton Street, London, N.W.1, £2,297; at primary schools and grammar and technical schools—Waywarden, Ltd., 215 Forest Road, London, E.17, £1,283 and £2,674 (all recommended).

Wandsworth.—Permanent reinstatement of 70,000 sq. yd. of highways following trench openings and re-laying 14,000 sq. yd. of broken paving, for B.C.—J. Murphy and Sons, Ltd., 43 Charteris Road, London, N.4, £36,025 (recommended); Pavie, Ltd., £38,716; McNicholas Construction Co., Ltd., £40,825; M. J. Clancy and Sons, Ltd., £42,800; Fitzpatrick and Son (Contractors), Ltd., £42,995; Thomas E. Black, £53,087; J. Murphy Cable Contractor and Civil Engineers, Ltd., £54,112; P. Lavelle, Ltd., £74,487.

Wednesbury, Staffs.—Road and sewers works at Winchester Road for B.C.—Ballasts, Ltd.,

Bentley Lane, Walsall, £3,428 (recommended).

Wellington, Salop.—Dothill estate, section I, site preparation, for U.D.C., comprising construction of approximately 8,600 lin. yd. of foul and storm water sewers, varying from 6in. to 39in. in diameter, 22,000 sq. yd. flexible carriageway with kerbs, channels, earthworks and other incidental works. A. G. Barton, engineer and surveyor—Percy Bilton, Ltd., Bilton House, Newcastle Road, Stone, Staffs., £94,604. Work commenced.

Wenlock, Salop.—Construction of roads and sewers and site levelling for B.C.—C. J. Pearce, Dawley, £6,936, and Terraplane, Ltd., Seisdon, £725, respectively.

Wiltshire.—Realignment and widening of five separate curves on the road leading from Bulford Military Camp to the Tidworth Military Camp, for C.C.—Amey's Asphalt Co., Ltd., Sutton Courtenay, Abingdon, Berks.

Wolverhampton, Staffs.—Following for B.C.: Construction of carriageway foundations, foul and surface water sewers and ancillary works at Cononaton Road—Three Counties Construction Co., Ltd., 32 Fairview Road, Penn, Wolverhampton, £3,823 (subject to Ministry approval).

Drainage and surfacing with tarmacadam the garage site at Westcroft Avenue—Direct Labour. Estimated cost £1,140.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Cwmbran, Mon.—Llantarnam relief sewer for U.D.C., including 160 yd. 6in., 140yd. 9in., and 620yd. 12in. sewers, together with 12 manholes and ancillary works. R. O. Hann, surveyor—J. F. Dymond, 30 High Street, Newport, Mon., £3,948 (subject to Ministry approval).

Halstead, Essex.—Construction of about 1,100 lin. yd. 6in. glazed stoneware pipe sewer and manholes, a pumping station and 475 lin. yd. of 4in. cast-iron rising main, and a sewage disposal works for the Council's houses in the parish of Bulmer for R.D.C. C. G. Smith, engineer and surveyor—D. and H. (Contractors), Cambridge, Ltd., 83a Regent Street, Cambridge, £10,988 (accepted); H. W. Bone and Co., Ltd., £11,523; Pudney and Son, Ltd., £11,714; Mears Bros. (Contractors), Ltd., £12,922; Slater Bros. (Glensford), Ltd., £13,154; Biggs Wall and Co., Ltd., £15,182; F. R. Hipperson and Son, Ltd., £16,194. Work to commence Nov.

Long Ashton, Som.—Construction of sewers at Winford between Potters Hill and Chew Magna for R.D.C., consisting of the construction of approximately 7½ miles of 15in., 12in., 9in. and 6in. sewers and manholes, stormwater overflow and house connections. Maynard Froud and Stevens, consulting engineers, Alliance House, Baldwin Street, Bristol, 1—Avonmouth Plant and Construction Co., Ltd., St. Andrews, Avonmouth, Bristol, £93,743 (lowest tender received).

Rugby, War.—Willoughby sewerage and sewage purification, contract 14, for R.D.C., involving the laying of approximately 1½ miles of 6in. salt-glazed ware and asbestos-cement sewers with concrete tube manholes,

and the construction of two pumping stations and sewage purification works, comprising reinforced concrete settling, digestion and humus tanks, biological filter, sludge drying beds, site pipelines and chambers, roads, paths and fencing, and general site works. J. D. and D. M. Watson, consulting engineers, 67 Tufton Street, Westminster, London, S.W.1—D. J. Bullock and Co., Ltd., Northgate, Aldridge, Staffs., £33,131.

Ruthin, Denbighs.—Construction of the Graig-Fechan sewerage and sewage disposal scheme, contract S.D.4, for R.D.C. Clifford Birtwell, engineer and surveyor—Francis Roberts and Sons, Ltd., Trevor, near Wrexham, £14,600. Work about to commence.

St. Albans, Herts.—Provision of a surface water sewer at Green Lane/Harpenden Road for City Council—Thomas Carey and Sons, Ltd., £3,111 (recommended).

Sodbury, Glos.—Construction of Doynton sewerage scheme for R.D.C. Maynard Froud and Stevens, consulting engineers, Alliance House, Baldwin Street, Bristol, 1—Ware Construction Co., Ltd., 125 Pembroke Road, Bristol, £18,741.

Southport, Lanes.—Construction of sewers in connection with phase 3 of the Ainsdale sewerage and sewage disposal scheme for B.C.—A. C. Brew, Ltd., 653 Liverpool Road, Irlam, £52,032 (recommended, subject to Ministry approval).

Stafford.—Little Haywood, Colwich and Bishton sewerage and sewage disposal, for R.D.C. Works comprise construction of approximately 5,080yd. of 6in., 9in. and 12in. diameter sewers, together with two pumping stations and extensions to the existing sewage disposal works at Hixon, comprising settlement tank, circular bacterial filter bed, humus tank, and other appurtenant works. Elliott and Brown, chartered civil engineers, Stanley House, Pelham Road, Nottingham—J. W. Stamp and Co., Ltd., Nuthall Road, Bobbers Mill, Nottingham.

Stourbridge, Worcs.—Construction in tunnel of approximately 70yd. 12in. and 6in. diameter concrete and glazed stoneware pipe sewers, together with a manhole and service connections, at Birmingham Street, for Main Drainage Board. John H. Haiste and Partners, consulting engineers, 10c Hagley Road—B. Hawkins, 62 Ruiton Street, Lower Gornal, Dudley, £3,059. Work commencing Oct.

Tuoro, Corn.—Construction of about 669yd. of 9in. diameter British Standard glazed stoneware pipe sewer and eight concrete tube manholes, Newham Fields, for City Council—Hendersons (Contractors), Newquay, Ltd., White Walls, Fore Street, Newquay, £2,690.

Warwick.—Shrewley sewerage and sewage disposal scheme, contract 12, for R.D.C., involving the laying of 3½ miles of 9in. and 6in. salt-glazed ware sewers with concrete tube manholes and the construction of an ejector station and of sewage disposal works, comprising reinforced concrete settling, digestion and humus tanks, biological filters, sludge drying beds, works pumping station and site roads, pipelines and fencing. The work will be located in the neighbourhood of Hatton Junction, four miles west of Warwick. J. D. and D. M.



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Watson, consulting engineers, 67 Tufton Street, Westminster, London, S.W.1—David Thomas and Hill, Ltd., 1 Chapel Street, Leamington Spa, £68,972 (accepted); Robert Powdrill and Co., £66,782; Tarslag, Ltd., £70,451; Simpson and Rollston, Ltd., £72,748; M. J. Gleeson (Contractors), Ltd., £102,620.

Windsor, Berks.—Construction of about 1,100yd. of 6in. diameter glazed stoneware and spun-iron sewers, a small reinforced concrete underground pumping station and about 530yd. of 4in. diameter spun-iron pumping main, Earleydene estate, for R.D.C. Lemon and Blizard, consulting engineers, 59 Tufton Street, Westminster, S.W.1—Austen Shrivels, Ltd., Orestan Lane, Effingham, Surrey, £12,168.

STREET LIGHTING

Buckfastleigh, Devon.—Provision of 130 60-watt sodium street lights for U.D.C.—South Western Electricity Board, £2,491.

Cardiff.—Street lighting erection, contract 5, for City Council—S. A. Inston, Ltd., Snowsford, Foregate Street, Stafford, £3,597 (recommended).

Dudley, Wores.—Third year phase of street lighting for B.C.—Revo, Ltd., Tipton, Staffs., £21,992, and Midlands Electricity Board, £13,802 (recommended).

Ossett, Yorks.—Supply and installation of fittings to convert the tungsten lamps in Dewsbury Road, between the Dewsbury County Borough boundary and Leeds Road roundabout, to sodium lamps, and those in the town centre to mercury vapour lamps for B.C.—Engineering and Lighting Equipment Co., Ltd., Sphere Works, St. Albans, Herts.

Rowley Regis, Staffs.—Provision of electric street lighting at Moor Lane and Greenwood Avenue, for B.C.—Revo Electric Co., Ltd., Tipton (extension of contract). Estimated cost £2,197.

Saltash, Corn.—Complete installation of group A fluorescent lighting in Fore Street, and group B mercury vapour lighting in Callington Road for B.C. A. de Barr, borough surveyor—A.E.I. Lamp and Lighting Co., Ltd., West Butte Street, Cardiff, £2,969. Work to commence Oct. 1.

Stretford, Lancs.—Following for side street lighting conversion for B.C.: Conversion brackets and lanterns—Wardle Engineering Co., Ltd., 51 Grainger Street, Newcastle, 1, £676 and £1,125, respectively; time switches—Sangamo Weston, Ltd., 22 St. Georges Court, New Oxford Street, London, W.C.1, £1,590; steel columns—Stewarts and Lloyds, Ltd., 41 Oswald Street, Glasgow, C.1, £8 14s. 4d. per column (all recommended).

Twickenham, Middx.—Provision of 200-W and 140-W sodium vapour and three by 80-W fluorescent lighting units on reinforced concrete and steel columns and brackets for B.C.—A.E.I. Lamp and Lighting Co., Ltd., 132-135 Long Acre, London, W.C.2, £27,904 (subject to Ministry approval).

GOVERNMENT CONTRACTS

Admiralty.—Particulars of contracts over £4,000 in value placed by Navy Works Department:

Fife: modernisations of houses—J. R. and A. Adam, Ltd., Lochgelly.

Renfrewshire: strengthening jetty—H. M. Murray and Co., Ltd., Glasgow, C.2. Morayshire: construction of building—Aleander Hall and Son (Builders), Ltd., Aberdeen.

Air Ministry.—Contracts to the value of £4,000 or over for the fortnight ended Aug. 5, 1960:

Building work: Middleton St. George, Dur.—F. Shepherd and Son, Ltd., Blue Bridge Lane, York; Kinloss, Moray.—Scottish Tarmacadam, Ltd., 44-52 Bilbao Street, Glasgow, C.5; Warboys, Hunts.—A. J. G. Potter and Sons, Ltd., High Street, Stanwick, Wellingborough, Northants; Uxbridge, Middx.—W. H. Streeter, Ltd., Tudor Road Works, Hampton, Middx.; Andover, Hants—F. R. Hipperson and Son, Ltd., Invicta House, Wantz Road, Dagenham, Essex.

Building and civil engineering: Halton, Bucks.—F. R. Hipperson and Son, Ltd., Invicta House, Wantz Road, Dagenham, Essex.

Artificers' work: Croydon Airport, Surrey—C.A.S. (Contractors), Ltd., St. James's House, Kensington Square, London, W.8; Carpenders Park, Herts.—Combined Contractors (London), Ltd., Wellington Works, Voluntary Place, London, E.11; Eastleigh Airport (Hants), etc.—R. Corben and Son, Ltd., 26 Carlton Crescent, Southampton, Hants; Henlow, Beds.—M. and F. O. Foster and Co., Ltd., 23 York Road, Hitchin, Herts.

Painting work: Mount Batten, Plymouth, Devon—George Jones and Son (Contractors), Ltd., 276 Kensington Church Street, London, W.8; Bovingdon, Herts., and Chenies, Bucks.—W. H. Streeter, Ltd., 10 Tudor Road, Hampton, Middx.; Wellesbourne, Mountford, etc., War.—T. E. Cundy and Son, Ltd., 28 Belgrave Road, Leicester; Stansted, Essex—William Herd and Co., Ltd., 95 Baker Street, London, W.1.

Surfacing of paved areas: Strubby, Lincs. The Limmer and Trinidad Lake Asphalt Co., Ltd., 232-242 Vauxhall Bridge Road, London, S.W.1.

Resurfacing work (runway), etc.: Kinloss, Moray—William Briggs and Sons, Ltd., P.O. Box 19, East Camperdown Street, Dundee, Angus.

Epoxy bitumen asphalt surfacing: Leconfield, Yorks.—George Wimpey and Co., Ltd., Hammersmith Grove, London, W.6.

Heating installations: Middleton St. George, Dur.—Walter Cowen, Ltd., Souldern Road, London, W.14.

Supply and installation of aviation fuel expense pump: Sculthorpe, Norfolk, and Mildenhall, Suffolk—Stothert and Pitt, Bath, Som.

Ministry of Works.—Contracts placed for week ended July 30, 1960:

Ayrshire: Telephone Engineering Centre and Motor Transport Workshop, York Street, Ayr—erection—Thos. Findlay and Sons, Ltd., Horwood Place, Mauchline.

Gloucestershire: Crown Works, St. Philips, Bristol—re-roofing No. 1 garage—E. A. Bicknell and Sons, Ltd., Merham Road, Bristol, 2.

Lancashire: Station Sorting Office and Sub-Post Office, Westcliff, Preston—erection—John Laing and Son, Ltd., Building and Civil Engineering Contractors, Carlisle.

Lanarkshire: High Temperature Materials Laboratory, East Kilbride—erection of

h.t. and l.t. switchgear—Brush Electric Engineering Co., Ltd., 126 Vincent Street, Glasgow, C.2.

London: London Telephone Region Site, Boldero Street, N.W.8—erection of shaft-head building and lift motor room, etc.—Dearsley and Carter, Ltd., 91-93 King Street, Hammersmith, W.6; Branch Post Office, 121-125 Lupus Street, Pimlico, S.W.1—construction—Richard Maddern, Ltd., 15 The Viaduct, Sherwood Road, South Harrow, Middx.

Staffordshire: Post Office and Sorting Office, The Avenue Kidsgrove, Stoke-on-Trent—erection—Geo. A. Poole, Ltd., 37 Liverpool Road, Newcastle.

Worcestershire: Automatic Telephone Exchange, Franche Road, Kidderminster—alterations and extensions to power room—J. Herbert Smith (Kidderminster), Ltd., 5 George Street, Kidderminster; housing site, Leigh Sinton Road, Malvern—erection of 20 houses, external works and services—Espley and Co., Ltd., 62 High Street, Evesham.

Yorkshire: Telephone Exchange, Leopold Street Dinnington—erection—Wm. Drabble and Sons, Ltd., 22-24 High Street, Mosborough.

Post Office.—Contracts for duct laying, etc., works to the value of £4,000 and over placed during the week ended July 30:

P. A. Baines and Sons (Northern), Ltd., Church Lane Housing Site, Marske-by-the-Sea, Redcar, Yorks.; Hugh Brown (Engineers), Ltd., Chart Road, Ashford, Kent; Crawford and Cryan, Ltd., 124 Stafford Road, Wallington, Surrey; The Eden Construction Co., Ltd., English Damside Carlisle, Cumb.; W. A. Gale, Ltd., 38 Ruthven Road, Litherland, Liverpool, 21; The North Midland Construction Co., Ltd., Portland Works, Daybrook, Nottingham; The Northwest Construction Co., Ltd., Litherland, Liverpool, 21; William Press and Son, Ltd., 22 Queen Anne's Gate, Westminster, London, S.W.1; George Taylor (Wolverhampton), Ltd., The Viewlands, Cross Road, Albrighton, Wolverhampton, Staffs.

Contracts for duct laying, etc., works to the value of £4,000 and over placed during the week ended Aug. 6:

C.D.L. Construction Co., Ltd., Church Road, Egham, Surrey; Crawford and Cryan, Ltd., 124 Stafford Road, Wallington, Surrey; Alexander Thomson and Co. (London), Ltd., 45a Kensington High Street, London, W.8.

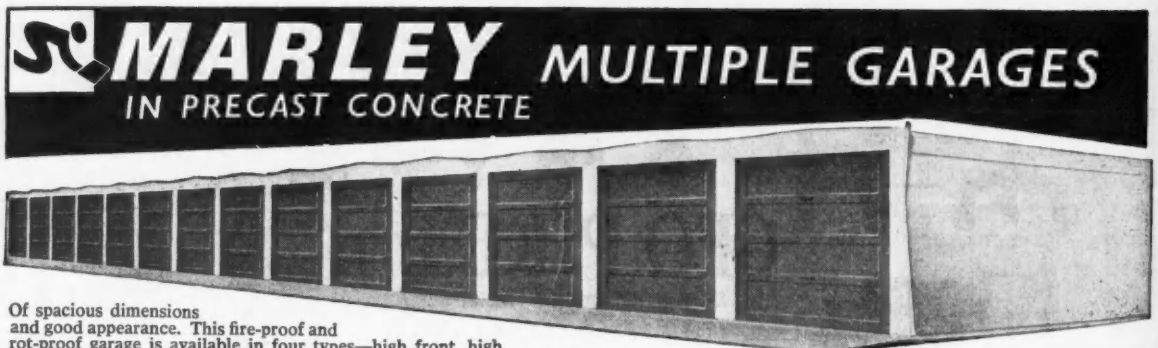
War Department.—Contracts placed for the week ended July 22:

Hampshire (Hilsea): painting—Architectural Decorators, Ltd., London, S.W.1; (Aldershot): building—Lee Bros. (Aldershot), Ltd., Aldershot; (Ewshott): heating and water—G. H. Marshall, Ltd., Reading. Nottinghamshire (Chilwell): structural steelwork—Carter-Horseley (Engineers), Ltd., Tipton; roofing—W. H. Herries, Ltd., Nottingham.

Pembrokeshire (Manorbier and Castle Martin): painting and decorating—J. H. Woodward (Contractors), Ltd., Leamington Spa.

Wiltshire (Bulford and Salisbury and Larkhill): painting and decorating—P. J. Hartel (Southern), Ltd., Southampton; (Tidworth): electrical—Bonar Long and Co., Ltd., Dundee.

Yorkshire (Catterick Camp): heating—Wanson Co., Ltd., Boreham Wood.



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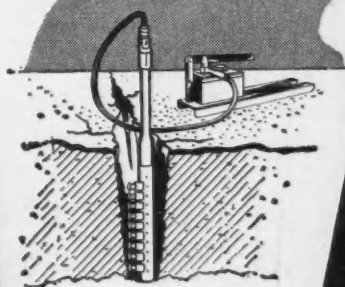
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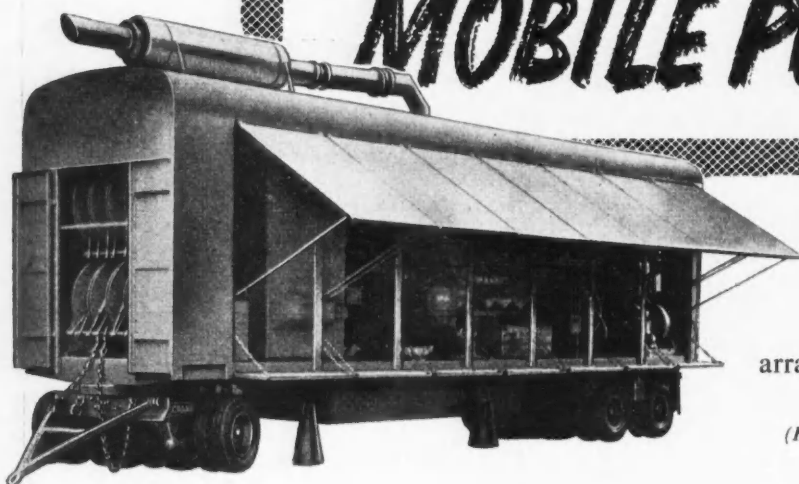
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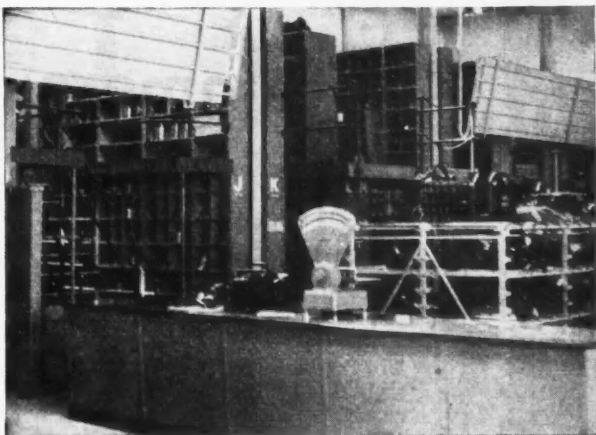
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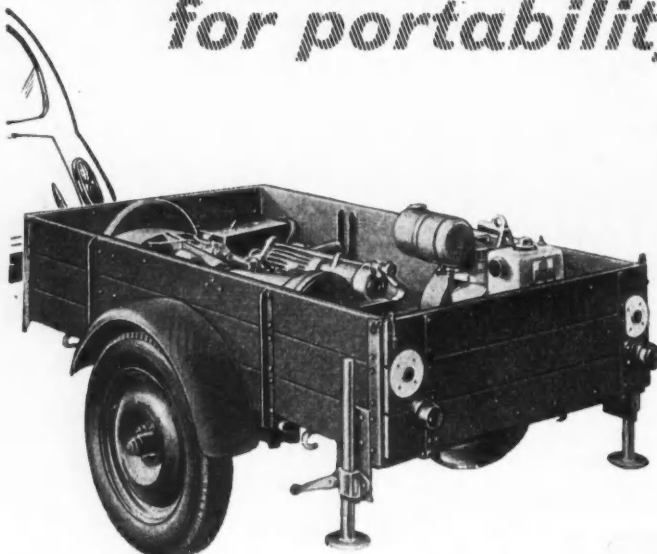
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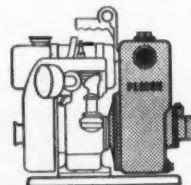
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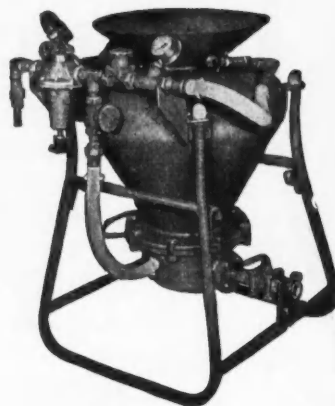
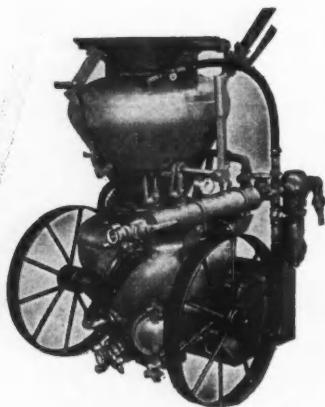
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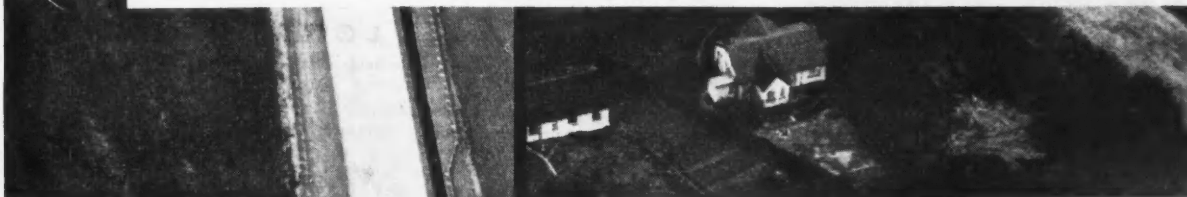
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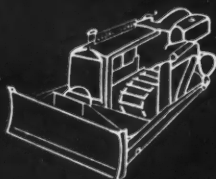


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(Continued from page 736)

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Ruston 10RB, Dragline, very clean cab, engine poor, Series 3500, £275.
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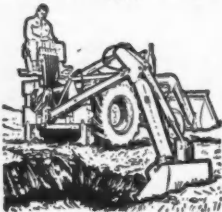
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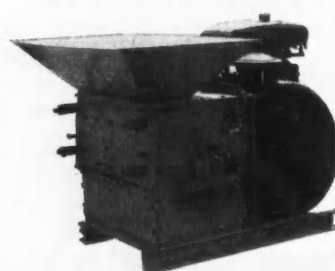
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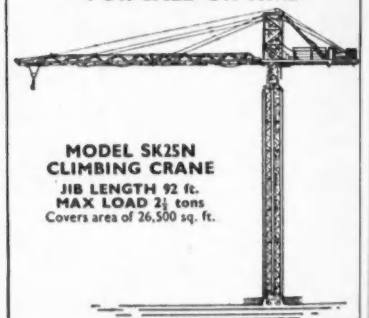
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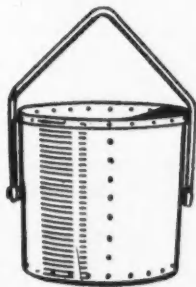
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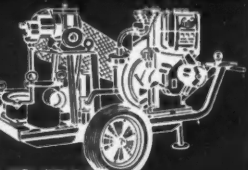
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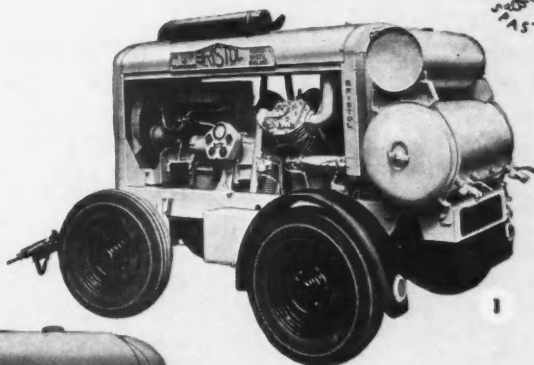
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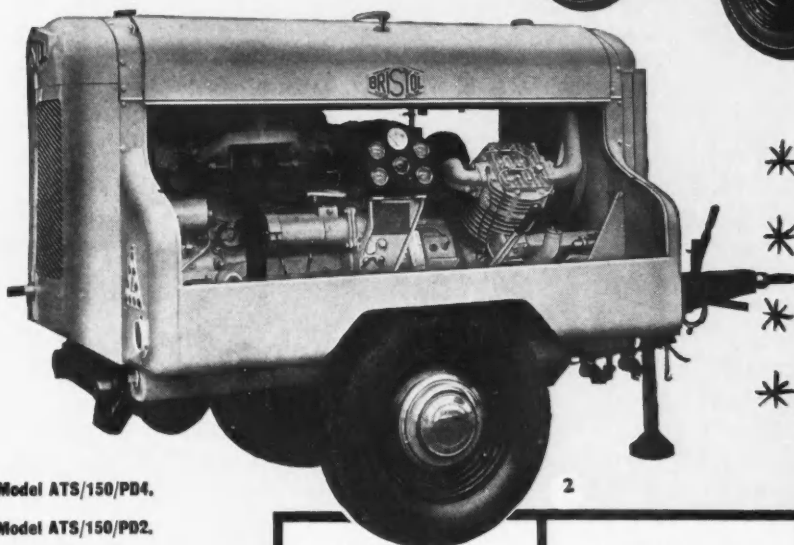
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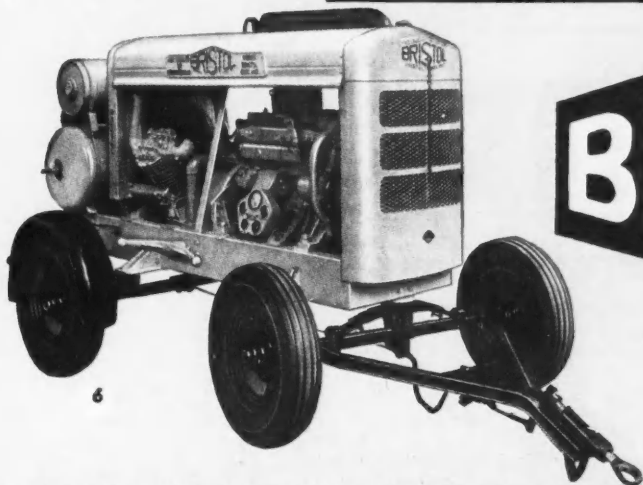
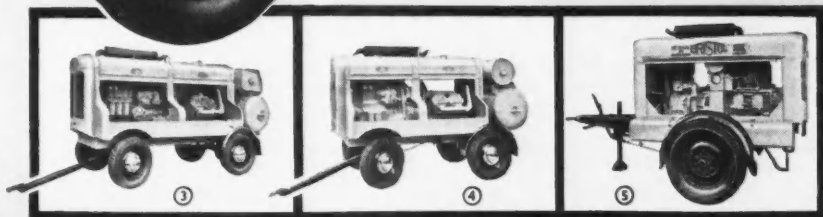


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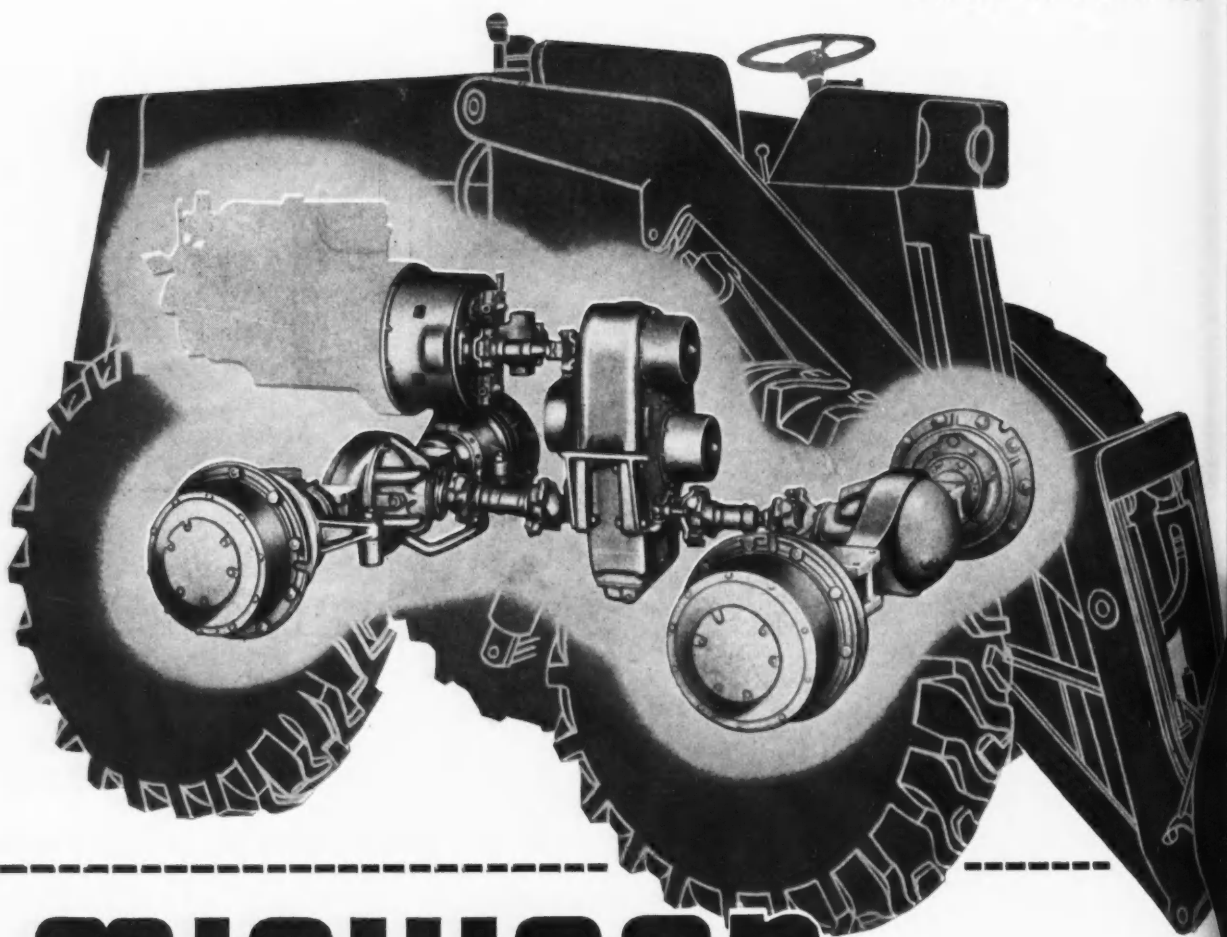
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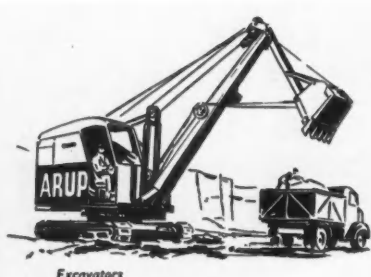
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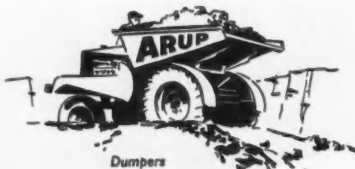
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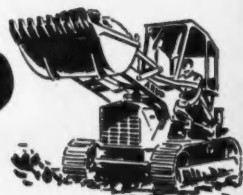


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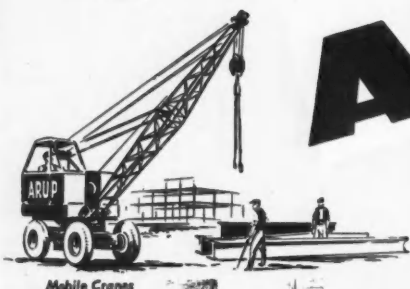


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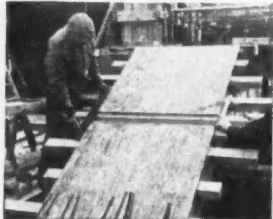
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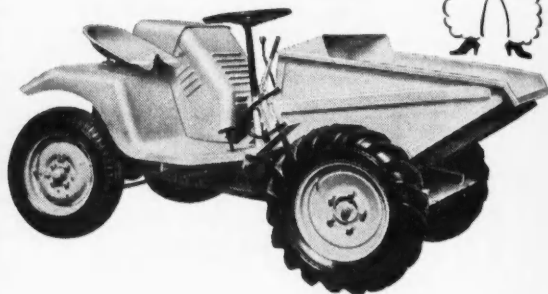
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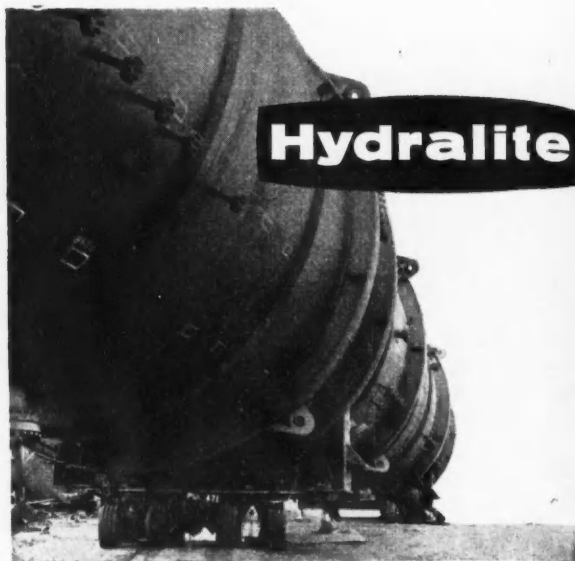
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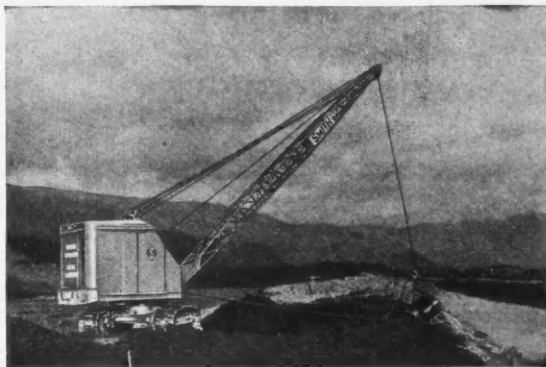
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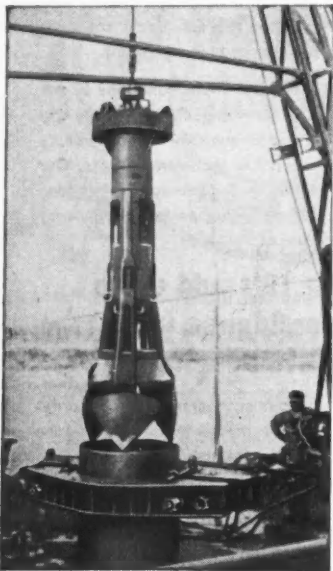
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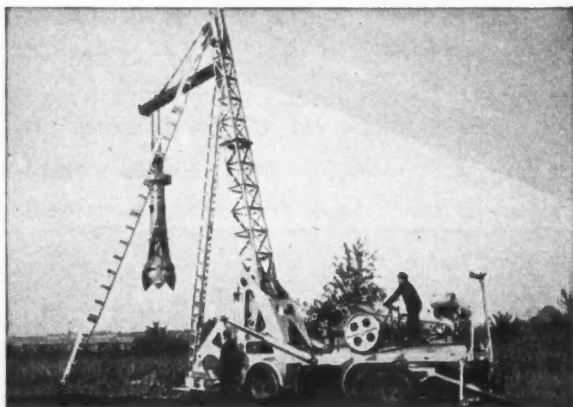


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					of Grabs approx.	Hooking crown	O.D. inch	I.D. inch
E-32-2	14 1/2"	17 1/2"	3	-	1720 lbs.	187 lbs.	16 1/2"	15 1/4"
	16 1/2"	20 1/2"		-	1764 lbs.		18 1/2"	17 1/2"
	20 1/2"	25 1/2"		18 1/2"	1841 lbs.		22 1/2"	21 1/2"
	24 1/2"	29 1/2"		21 1/2"	1962 lbs.		26"	24 1/2"
E-43-2	28 1/2"	33 1/2"	3	24 1/2"	2866 lbs.	243 lbs.	30 1/2"	29 1/2"
	38 1/2"	43 1/2"		32 1/2"	3307 lbs.		39 1/2"	38 1/2"
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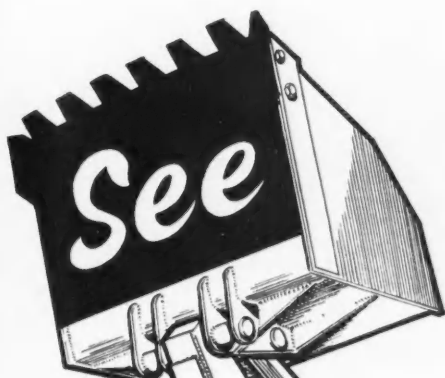
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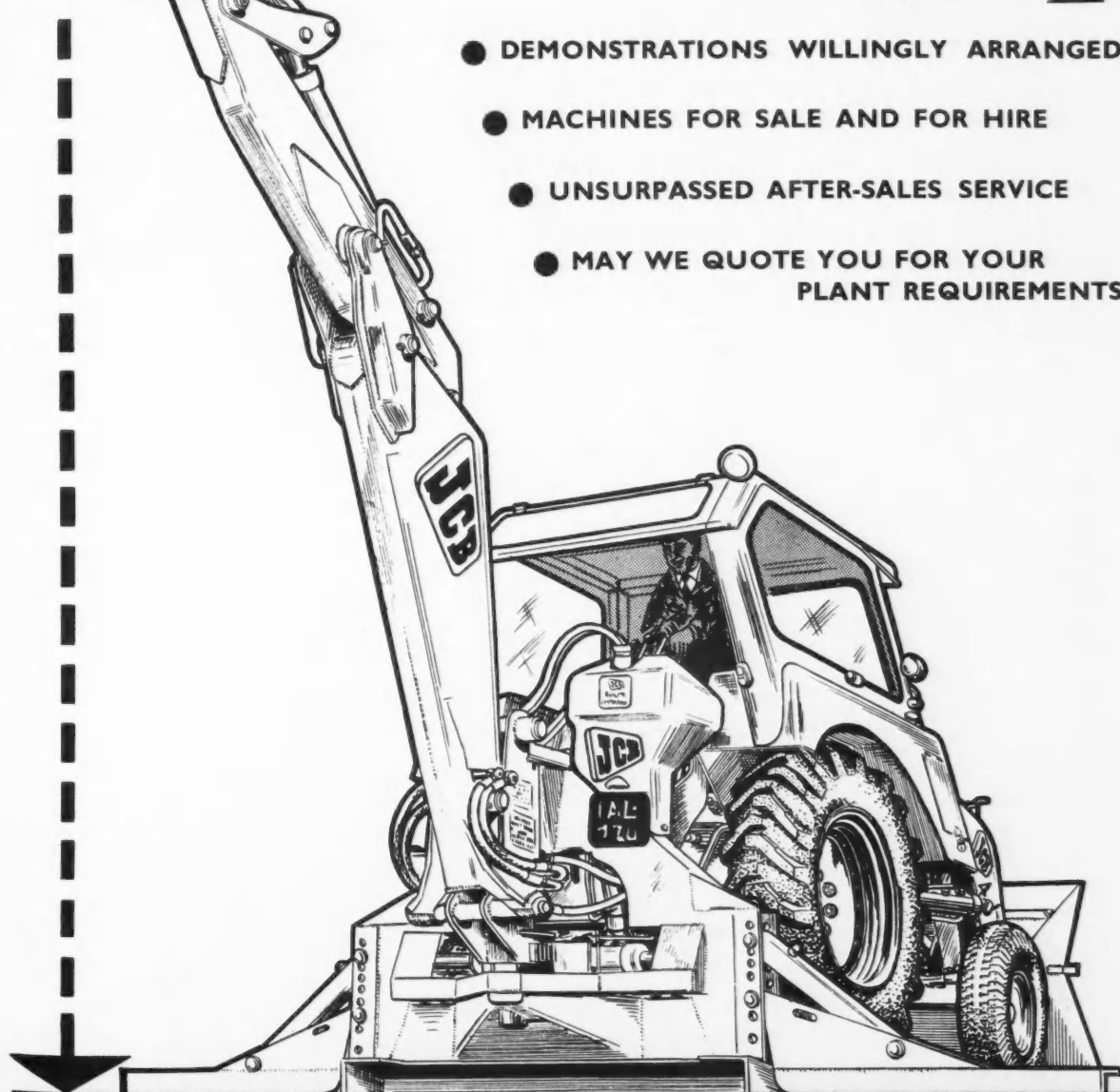


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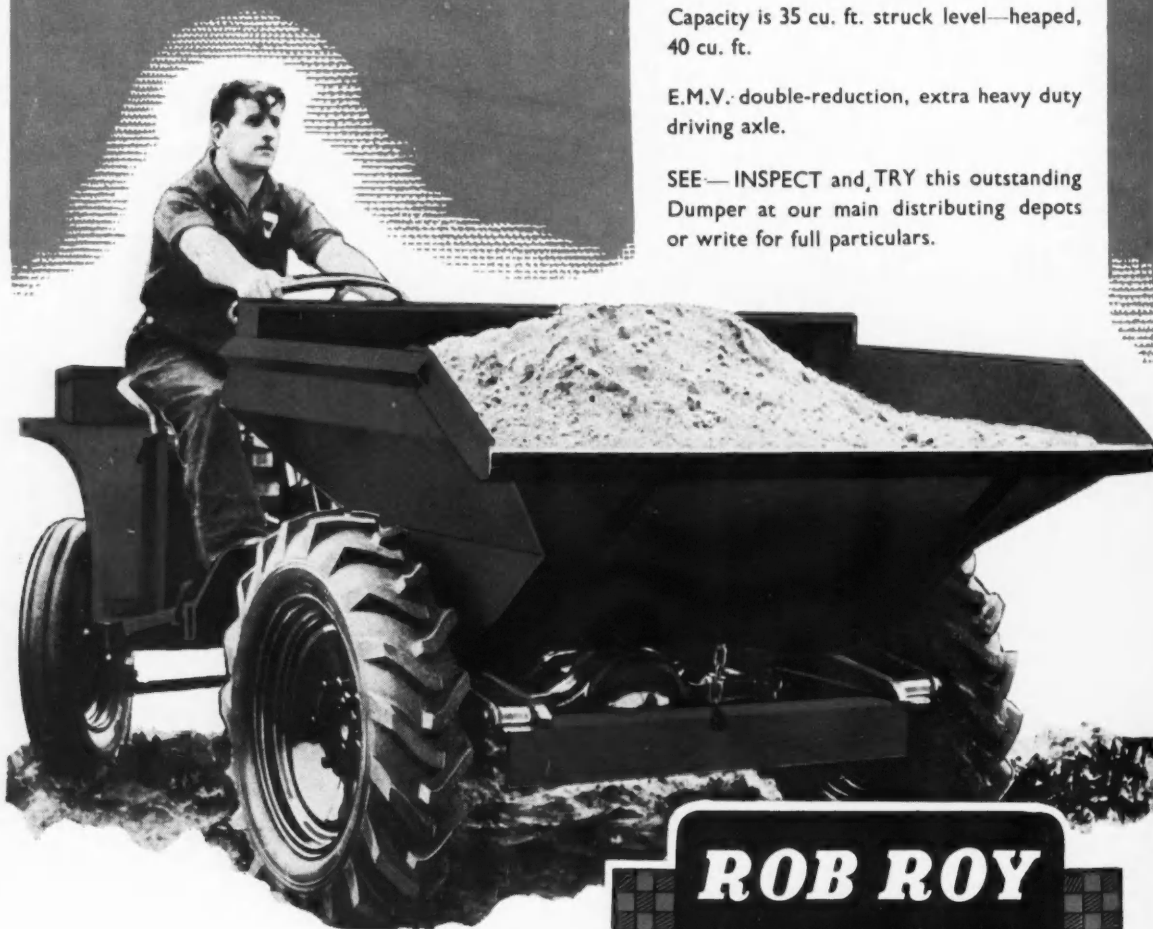
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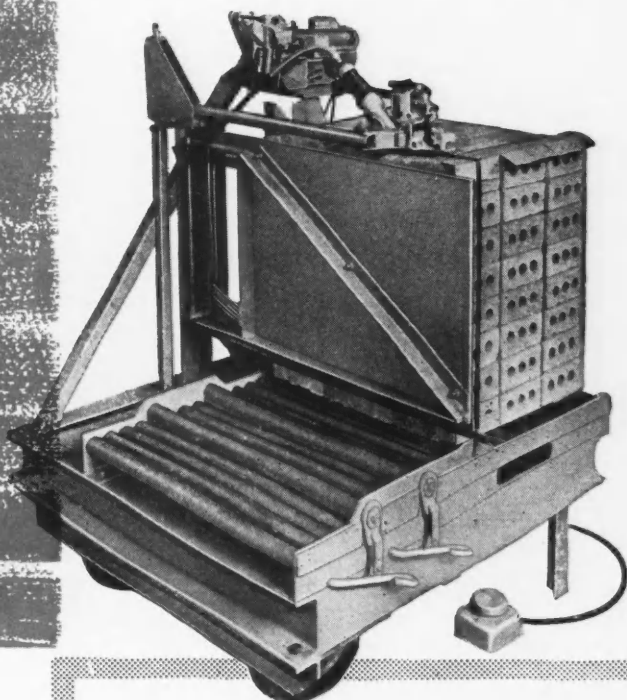
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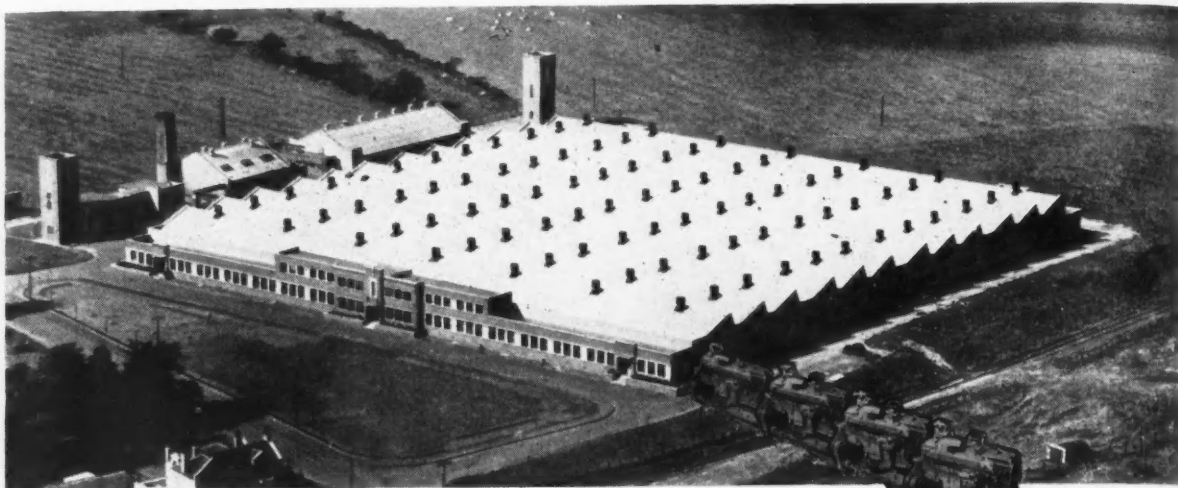
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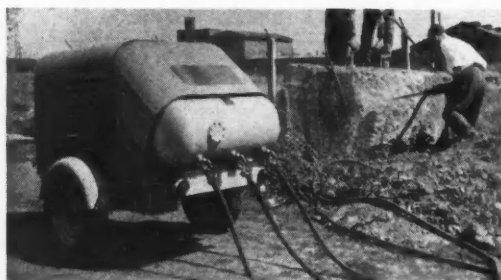
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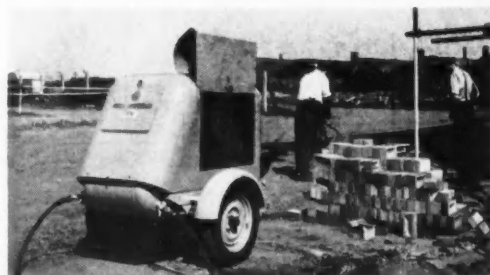
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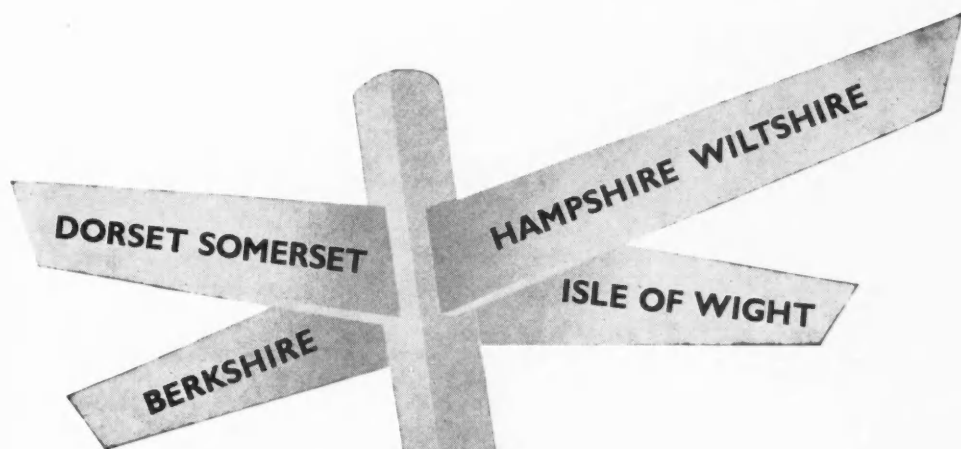
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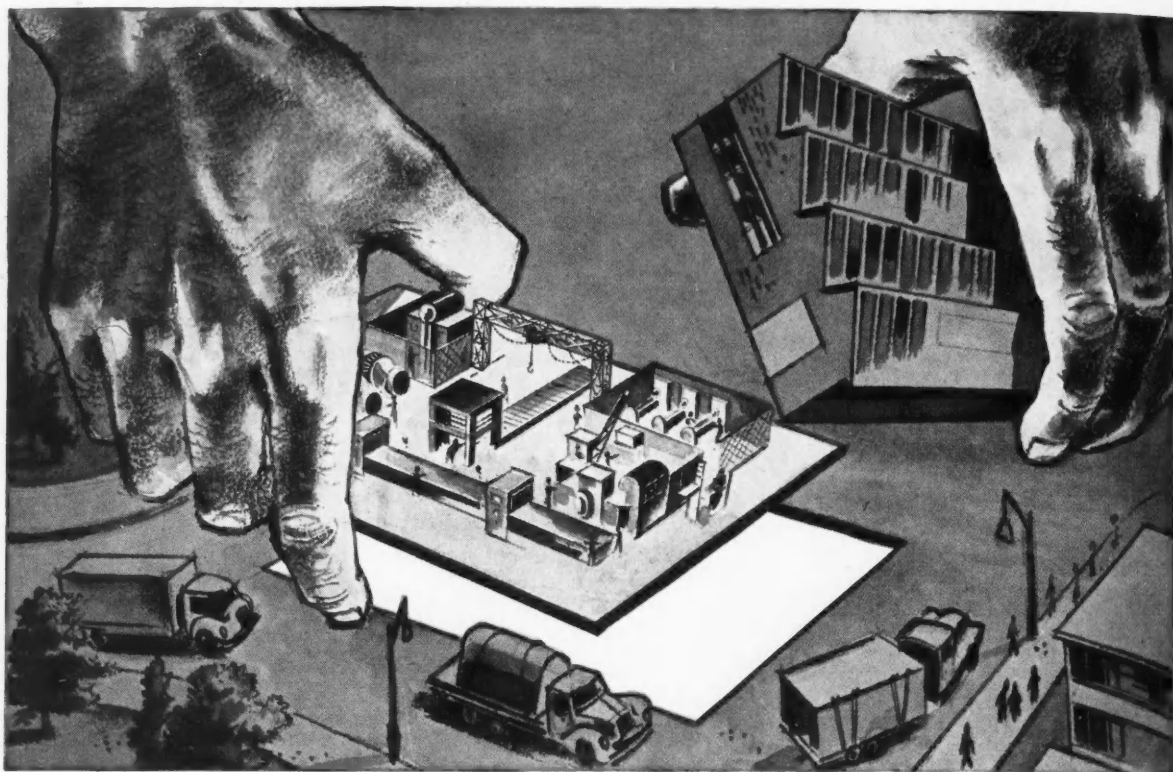
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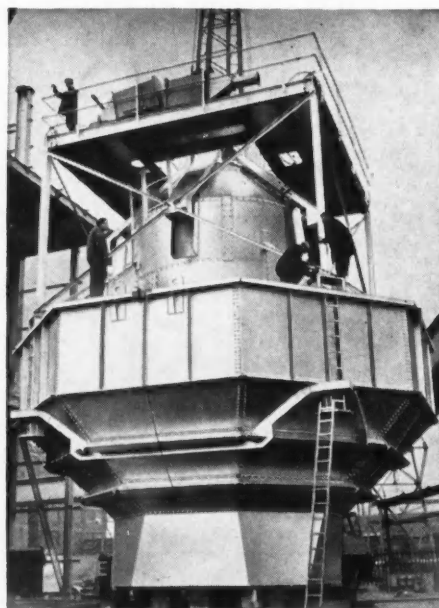
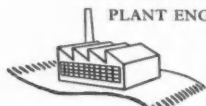
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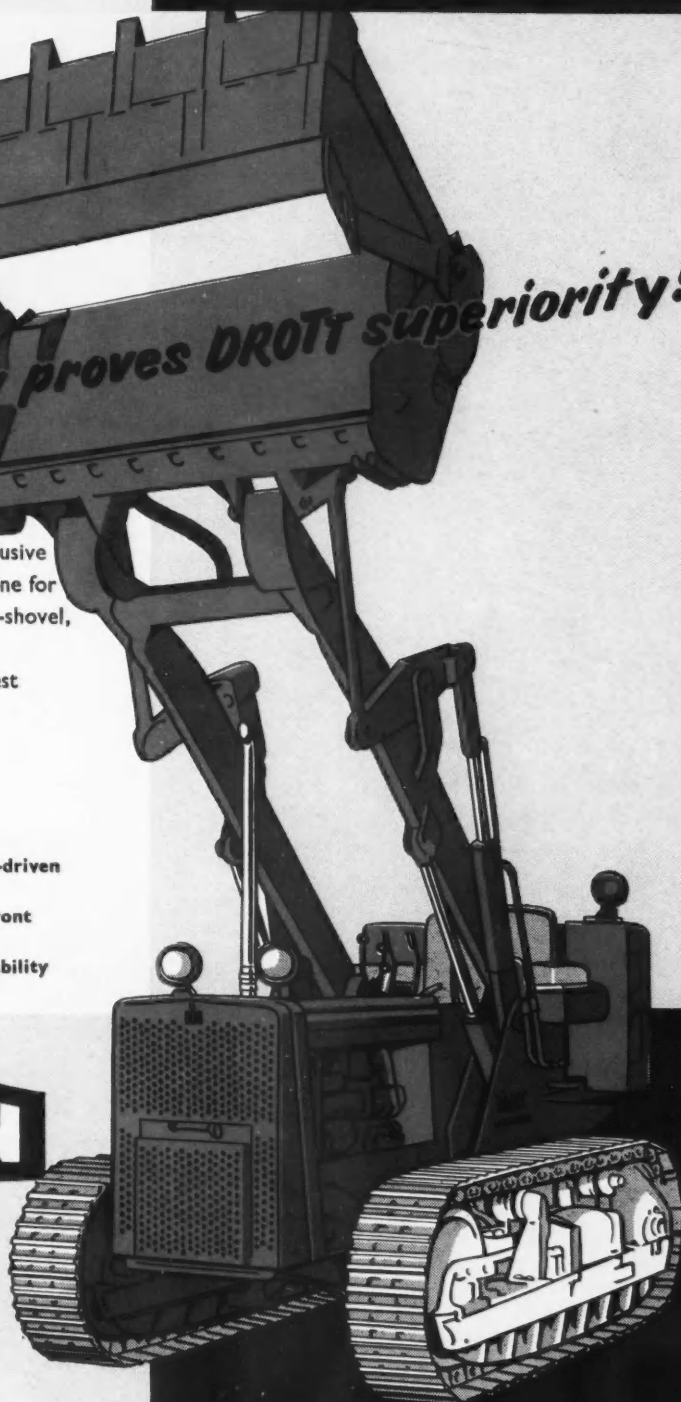
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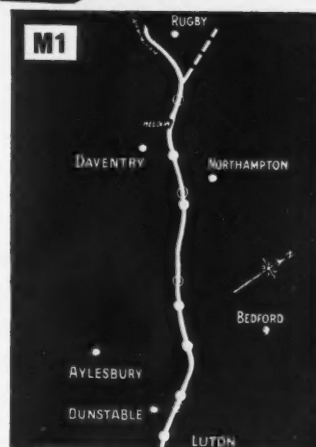


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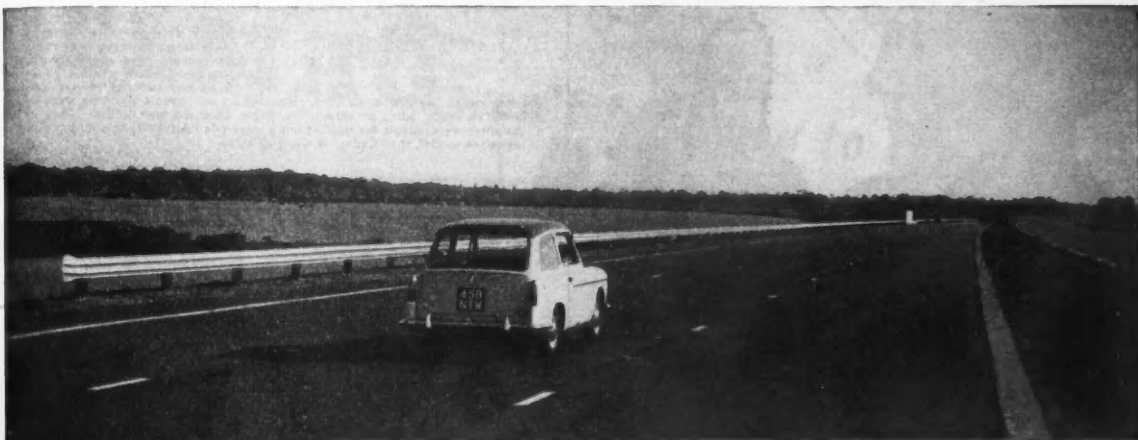
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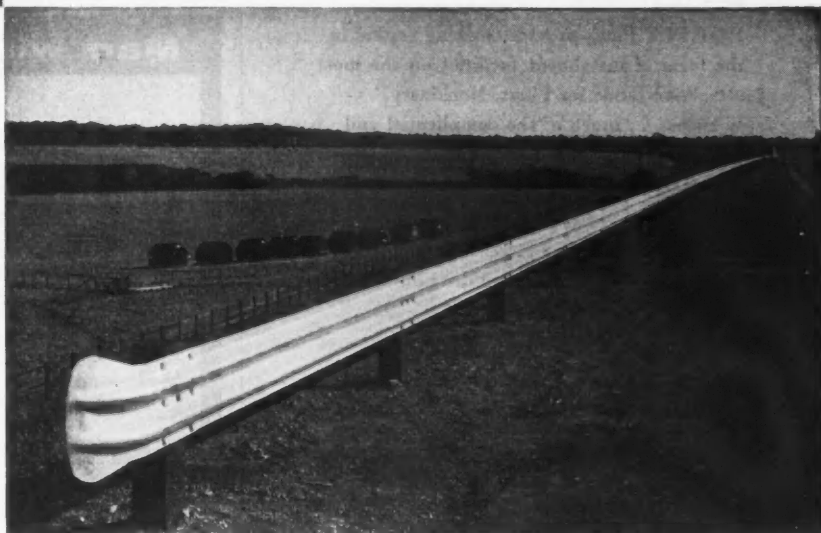
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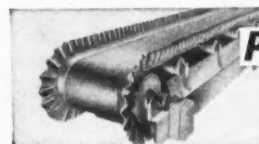
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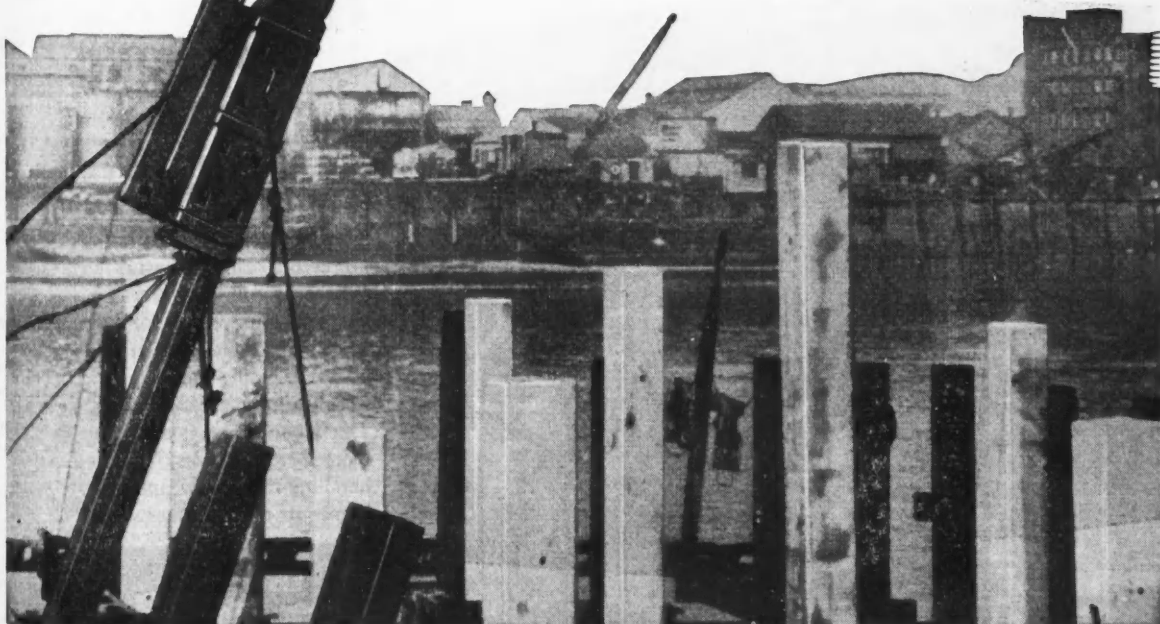
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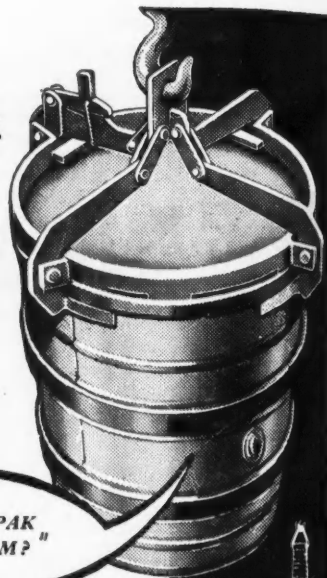


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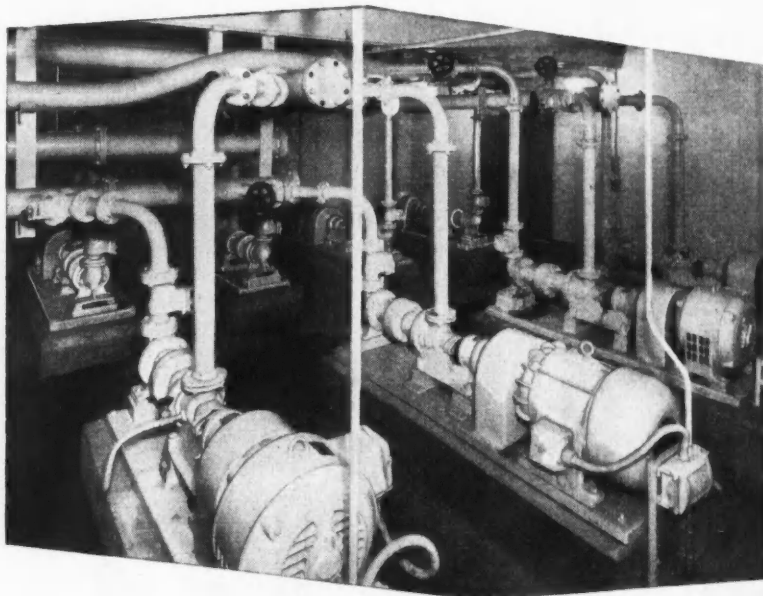
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BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)
BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel.: 2264.) (See Hampshire.)
COFF, HARRY A., LTD., Buckhurst Hill, Chesham, Ascot, Berks. (Tel.: Ascot 1026/7.) Sand, all grades of washed aggregates, hardcore, clinker, shales and hoggin.
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GRUNDON, S. (EWELEME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4158.) All grades washed aggregates. Path hoggin, broken stone, building sand.
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POOLE (LICHLEADE), LTD., Gravel Pit, Burford Road, Lichlade, Glos. (Tel.: Lichlade 219.)
RALPH OF BASINGSTOKE, LTD., 37 Kempshott Lane, Basingstoke, Hants. (Tel.: 85.) Concrete aggregates, building sand, all grades of hoggin, etc.
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NASH ROCKS STONE AND LIME CO., LTD., Prestelgne, Radnor. (Tel.: Prestelgne 352.) (See Herefordshire for details.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

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GRUNDON, S. (EWELEME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4158.) All grades washed aggregates. Path hoggin, broken stone, building sand.
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AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.)
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)
WICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades of limestone, tarmacadam, dry, pitching stone, hardcore, etc.
COFF, HARRY A., LTD., Buckhurst Hill, Chesham, Ascot, Berks. (Tel.: 1026/7.) (See Berkshire.)
DANGERFIELD, F. J. & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.)
DRINKWATER, W. W. (WILLESDEAN), LTD., Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.)
GRUNDON, S. (EWELEME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4158.) All grades washed aggregates. Path hoggin, broken stone, building sand.
HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.
HALL AND CO., LTD., Brentford, Middlesex. (Tel.: Isleworth 4455.)
JANES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand aggregates, hardcore, ashes, building and bulk excavation. (Tel.: Slough 20361/2/3.)
LONDON BALLAST CO., LTD., (Tel.: Paddington 5064.)
55A Porchester Terrace, North Paddington, W.2.
MARLOW SAND AND GRAVEL CO., LTD., Westhorpe Pit, Little Marlow, Bucks. (Tel.: Marlow 378.)
STUART MACY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

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BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)
BULL BROS. & SONS, LTD., 126A High Street, Winchester. (Tel.: 2264.) Concrete aggregates (reconstituted, pit-mixed, weighbatched to meet any specification); also ballast, hoggin, path gravel and sand from own pits at Fawley, Lockerley, Ringwood, Romsey, and Totton.
DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
GILSON, S. C. AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)
HALL AND CO., LTD., Baltic Wharf, Marine Parade Southampton (Tel.: Southampton 21234.) and at Portsmouth. Pits at Ringwood, Highbridge and Totton. Gravel aggregate, concreting, plastering and building sand.
HASKINS, G. AND SONS, Queen Street, Emsworth. For washed sands and graded aggregates, path and road gravels, hoggin, clinker, ashes. (Tel.: Emsworth 22.)
MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.
NEW MILTON SAND AND BALLAST CO., Lymington Road, New Milton, Hants. (Tel.: 37 and 566.) Guaranteed uncrossed, washed, screened and graded concrete aggregates. All sizes. Washed sharp and fine sands.
PETERSFIELD ENGINEERING AND CONCRETE PRODUCTS, Bursdon, nr. Petersfield, Hants. (Tel.: Petersfield 1079.) Concrete aggregates, washed and graded filter media.
PRIVETT, W. G. AND SONS, LTD., Drayton Lane, Portsmouth. (Tel.: Cosham 70059.) Concrete aggregates, building sand, hoggin, ashes, washed and graded filter media, etc.
RALPH OF BASINGSTOKE, LTD., 37 Kempscott Lane, Basingstoke, Hants. (Tel.: 85.) Concrete aggregates, building sand, path gravel, hoggin, etc.
WESSEX SAND AND GRAVEL CO., LTD., 126 Hillside Avenue, Southampton. (Tel.: 55616.) Pits at Romsey and Fair Oak. Concrete aggregates, hoggin, building sand, etc.
WRAYBURY SAND AND GRAVEL CO., LTD., Station Road, Theale, Reading, Berks. (Tel.: Theale 373.)

HEREFORDSHIRE

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) Suppliers of all grades of crushed concrete aggregates, road metalising, pitching stone, hardcore and coated macadam.
NASH ROCKS STONE AND LIME CO., LTD., Prestelgne, Radnor. (Tel.: Prestelgne 352.) All grades of tared and bituminous macadam, roadstone, chippings and concrete aggregates, etc.
OLD RADNOR TRADING CO., LTD., Kingston. (Tel.: 11.) Granite and limestone aggregates, coated macadam, concrete products.
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.
WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel.: 3158/9.) (See Gloucestershire.)

HERTFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)
DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
EASTWOODS SALES, LTD., Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Broxbourne pit. (Tel.: Hoddeston 2456.) Producers and distributors of all grades of washed aggregates.
GABRIEL, C. LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Hertford and Enfield.
HALL AND CO., LTD., Railway Yard, Orchard Road, Stevenage (Tel.: 775), and at Hatfield. Gravel aggregates, concreting, plastering and building sand.
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)
WEBB, G., CAMBRIDGE, 35 Magrath Avenue, Cambridge. (Tel. 3969, 4353, 59966.) (See Cambs.)
WINFIELD, HENRY, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamstead 1208/9.) Pits at Hemel Hempstead, Watford, West Hyde, Rickmansworth. Concrete aggregates, hoggin, building sand.

HUNTINGDONSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)
FERRERS ROAD AGGREGATES, LTD., Northampton Road Quarries, Rushden (2354/5). (See Northants.)
GRAVEL PRODUCTS (HUNTS), LTD., St. Neots, Hunts. (Tel.: St. Neots 123.) Pits at Little Paxton, near St. Neots. (Tel.: St. Neots 308.) Deliveries in Beds., Hunts, and South Cambs.
NENE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5). Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) Producers of all grades of washed sand and gravel. Ready mixed concrete. Precast concrete of every description.

HUNTINGDONSHIRE

WEBB, G., CAMBRIDGE, 35 Magrath Avenue, Cambridge. (Tel. 3969, 4353, 59966.) (See Cambs.)
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

KENT

BRATED SAND PITS, Brasted, Kent. (Tel. 586.) London office: 10A Ellery Street, S.E.15. (Tel.: New Cross 3337.) Soft and plastering sands, lime and sand-mix dry, hardcore, S.M. bricks, ashes, etc.
BROWN BROS. (SITTINGBOURNE), LTD., Chalkwell Road, Sittingbourne, Kent. (Tel.: Sittingbourne 330.) Sand, ballast, shingle, hardcore, clinker, breeze blocks, etc.
CLUBB, J. LTD., Dartford, Kent. (Tel.: Dartford 25431.) Pits in North Kent, Medway area and Sevenoaks district. All washed and crushed gravel aggregates, concreting and building sand.
DIAMOND TREAD CO. (1938), LTD., Dilton Court Quarry, Larkfield, near Maidstone. (Tel.: West Malling 3444.) Quarry owners: tarmacadam, bituminous macadam and dry road stone manufacturers and suppliers. Head Office: 21-22 Old Bailey, London, E.C.4. (Tel.: City 7001—10 lines.)
DIAMOND TREAD CO. (CHART), LTD., Swan Lane Quarries, Little Chart, Ashford, Kent. Quarry owners: tarmacadam, bituminous macadam and dry roadstone suppliers. All inquiries to Area Office: Dilton Court Quarry, Larkfield, near Maidstone, Kent. (Tel.: W. Malling 3444.)
HALL AND CO., LTD., Canning Street, Maidstone. (Tel.: Maidstone 51051.) and at Folkestone and Hayes. Pits at Lunford, near Larkfield. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.
HARRIS, M. P. AND CO., LTD., Station Road, Paddock Wood, Kent (Tel. 385.) (See Sussex.)
TILBURY CONTRACTING AND DREDGING CO., LTD., Postley, Maidstone. (Tel.: Maidstone 55401/2/3.) Suppliers of tared, bituminous and dry kiln-dried rapstone, sea, landfill, asphalt fillers, Scotch granite and kerbing.

LANCASHIRE

BROOMBYS, LTD., Sandisle, Milnthorpe (Tel. 3251/2). Westmorland. (See Westmorland.)
BUCKTON QUARRY, Broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.
CASTLETON SAND AND GRAVEL QUARRIES, LTD., Trows Lane, Castleton, nr. Rochdale. (Tel.: Castleton 57100.) Lee Quarries, Bacup. (Tel.: Bacup 287.) Washed pit sand, crushed washed stone aggregates, pitching stone.
CROXEN GRAVELS, LTD., Cheadle, Stoke-on-Trent. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.
DUNNING AND SON, LTD. (See Shropshire.)
HARTLEY, JOHN W., LTD., Lundsfield Quarry, Carnforth, Lancs. (Tel.: Carnforth 100.) Large producers of highest quality washed sands, clean washed natural pebble and crushed gravel aggregates for all construction purposes.
HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheshire, (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)
HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: 464 Wilbraham Road, Chorlton, Manchester. (Tel.: Chorlton 2274/5.)
PENMAENMAWR AND WELSH GRANITE CO., LTD., all sizes and gradings of crushed granite aggregate. Immediate delivery ex stock.
Preston Depots:
 Office: 7 Picton Road, Liverpool, 15. (Tel.: Sefton Park 7261.)
 Manchester Depot:
 Office: Cornbrook Lane, Manchester, 15. (Tel.: Trafford Park 3830.)
ROUND-O QUARRIES, LTD., Helsby Street, Warrington. (Tel. 35451—4 lines.) Building and concrete sand and shale.
TERN HILL SAND AND GRAVEL CO., LTD., Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)
TRENTHAM GRAVEL CO., LTD., Lodsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice-washed sharp concrete sand, plastering sand. Plant capacity: 2,000 tons per day.
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel. 4587/8/9.) Local Offices and pits: Chorley 3923 and Wigan 82039.
WITHERS LIMESTONE, LTD., Black Lane Quarry, Carnforth. (Tel.: Carnforth 327.) Graded limestone aggregate to B.S.S., all sizes. Immediate delivery ex stock.
X.I. GRANITE (INGLETON), LTD., Head Offices: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

LEICESTERSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London Office—VIGILANT 2530.) Best Leicestershire grey granite, dry and coated gradings to any specification, cold asphalt and wet mix. Prompt rail/road delivery.
CLIFFE HILL GRANITE CO., LTD., Markfield, near Leicester. (Tel.: Markfield 561/2/3.) Granite aggregates to B.S.S. All sizes. Tared and bituminous granite, concrete slabs and kerbs. Transmixed concrete.
DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Arixworth 278 and 298; Duston 505.) (See Northamptonshire.)
ENDERBY AND STONEY STANTON GRANITE CO., LTD., 21 New Walk, Leicester. (Tel. 56682.) Quarries at Enderby. London Offices: 29 Dorset Square, N.W.1. (Tel.: Amb. 114.)
GRAVEL HILL SAND QUARRIES, LTD., Prior Park, Ashby-de-la-Zouch. (Tel.: Ashby 79.) Works: Hartshorne, Derbys. Yellow screened plastering and building sand, all to B.S.S.
HILTON GRAVEL, LTD., Hemington Fields, near Shardlow, Derby. (Tel.: Shardlow 266.)
HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

LEICESTERSHIRE

MOUNTSOREL GRANITE CO., LTD., 21 New Walk, Leicester. (Tel. 56682.) Quarries at Mountsorel, near Loughborough. Taro pink granite a speciality. London Office: 29 Dorset Sq., N.W.1. (Amb. 114.)
WANLIP GRAVELS, LTD., Wanlip Road, Syston, Leicester. Any size or grading, scientifically balanced ballast. All to B.S.S. (Tel.: Syston 2327 and 2797.)
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel. 4587/8/9.) (See Northamptonshire.)
WREAKE VALLEY GRAVELS CO., LTD., Melton Mowbray. (Tel.: Pits—Rotherby 205 or head office Melton 2488.) All grades washed aggregates and sand.

LINCOLNSHIRE

CONINGSBY SUPPLY CO., LTD., Registered Office: The Broadway, Woodhall Spa, Lincs. (Tel.: Woodhall Spa 3150.) Screened limestone, hardcore, pitching, filling, flint, hoggin. Ex quarries or delivered.
DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)
EAST MIDLANDS BUILDERS' SUPPLY CO., 21 Castle-dyke West, Barton-on-Humber, Lincs. (Tel.: Barton 2189.) All grades washed sand and gravel, roadstone, hardcore, washed silica sand.
HARTSHOLME GRAVEL AND SAND CO., LTD., Hartsholme Wood, Doddington Road, Lincoln. Site selling agents: Hartsholme Sales, Ltd., 17 West Parade, Lincoln. (Tel.: Lincoln 23391.)
HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
HURDIS, J. W., LTD., Victoria Street, Grimsby (Tel.: Grimsby 3657) and Caistor (Tel.: Caistor, Lincs. 281). Building, plastering, concreting sand, gravel, ballast, hoggin and roadmaking materials.
PETERBOROUGH QUARRIES, LTD., Sandvales, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Ropsley, all grades of gravel and sand, roadstone, hardcore, slag, tarmac, ashes, etc. Pits and quarries throughout the county.
POLLARD, C. AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. Pits at Tallington, near Stamford, Lincs. (Tel.: Market Deeping 2140.) All grades washed sand and aggregates, or "Supercrete" ready mixed concrete, "phone Market Deeping 3132.
TRENTFORD GRAVELS, LTD., Head Office: Deansgate Grimsby. (Tel.: Grimsby 5354.) Washed and graded gravel and sand, roadstone, hardcore, slag, tarmac, ashes, etc. Pits and quarries throughout the county.

LONDON

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)
COX, H. AND SONS, LTD., 33 Southampton Way, Camberwell, S.E.5. (Tel.: Rodney 2215—3 lines.)
DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, N.W.3. (Tel.: HAMstead 8044/8.) Granite limestone or slag coated or dry, all sizes and pitching, granite kerb and setts, felspar quartz and other minerals by road or rail, or ex London stock.
DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) (For details, see Dorset.)
DRINKWATER, W. W. (WILLESDEN), LTD., Dodden Hill Lane, Willesden, N.W.10. (Tel.: GLADstone 6400/5.) Pits: Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.) Also Staines Road, Hounslow Heath, Middlesex. (Tel.: Hounslow 6222/3.)
GABRIEL, C. LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.
HALL AND CO., LTD., Chantry House, Eccleston Street, S.W.1. (Tel.: Sloane 7122), and at East Dulwich, Poplar and Wandsworth. Gravel aggregates, concreting, plastering and building sand.
KEEN, W. J. AND SONS, 18 Granville Road, Epping, Essex. (Tel.: Epping 2520.) All sands, ballast, shingle and hardcore supplied.
LONDON BALLAST CO., LTD. (Tel.: Paddington 5084.) 55A Porchester Terrace North, Paddington, W.2.
READ, P. T., LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Fairlop Airfield, Forest Road, Ilford, Essex. (Tel.: Hainault 6111/2/3.)
ROADS RECONSTRUCTION (1934), LTD., Stockley Lane, West Drayton, Middlesex. (Tel.: West Drayton 3041.) All sizes broken limestone, dry and coated to British Standards.

MERIONETHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

MIDDLESEX

CROSS, GEO. C. AND CO., LTD., Uxbridge Road, Southall. (Tel.: Southall 2645/6.) Concrete aggregates, hardcore, excavations, demolitions.
DRINKWATER, W. W. (WILLESDEN), LTD., Dodden Hill Lane, Willesden, N.W.10. (Tel.: GLADstone 6400/5.) Pits: Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.) Also Staines Road, Hounslow Heath, Middlesex. (Tel.: Hounslow 6222/3.)
GABRIEL, C. LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.
GRUNDON, S., 79 Harrington Road, Hillingdon, Middlesex. (Tel.: Uxbridge 5656.) Sand, ballast, shingle, hardcore, ashes, excavation and demolition.
HALL AND CO., LTD., Chantry House, Eccleston Street, S.W.1. (Tel.: Sloane 7122), and at Ashford and Brentford. Pit at Bedford, near Feltham. Gravel aggregates, concreting, plastering and building sand.
LONDON BALLAST CO., LTD. (Tel.: Paddington 5084.) 55A Porchester Terrace North, Paddington, W.2.
READ, P. T., LTD., Gales Gardens, Bethnal Green, E.2. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Edmonton Gravel Pit, Montagu Road, N.9. (Tel.: Shoreditch 9128/9.) Hainault 6111/2/3.
STUART MACEY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)

CONTRACTORS' GUIDE TO AGGREGATES

MIDDLESEX

THAMES SAND AND GRAVEL CO., LTD., Fordbridge Road, Shepperton. (Tel.: Walton-on-Thames 23616.) Gravel aggregates, concreting, plastering and building sand.

WRAYSBURY SAND AND GRAVEL CO., LTD. Pits at Wraybury. (Tel.: Wraybury 164.) Gravel aggregates, concreting, plastering and building sand.

MID-WALES

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Quarries in Radnorshire. (Kington 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington. (Tel.: 961.) Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

MONMOUTHSHIRE

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel. 3032), and Phoenix Works, Cardiff (Cardiff 63311), for limestone and slag aggregates, ready-mixed concrete, tarmac, media, filling, etc., kerbs and pavings.

MONMOUTHSHIRE ASSOCIATED QUARRIES, LTD., Head Office: 31 Chepstow Road, Newport, Mon. (Tel.: Newport 58311/2.) Suppliers of all grades of concrete aggregates, road metal, pitching stone, tarmac, and bituminous macadam in limestone, dolomite and blue pennant stone. Quarries throughout the county.

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

MONTGOMERYSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington. (Tel.: 961.) Salop.

NORFOLK

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

HECKENHAM GRAVEL CO., LTD., The Brook, Sutton, Ely, Cambs. (Tel.: Sutton 391/3.) Washed sand and gravel.

JOHNSON, P. C. M., LTD., Station Road, Terrington St. Clement, near King's Lynn. (Tel.: Terrington 718; or Leics.) Washed and screened gravel, roadstone, washed sharp and fine sand.

SNITTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamstead 1208/9.) Pits at Snitterton. Concrete aggregates, building sand.

THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 332434.) Washed and graded aggregates, stone, gravel delivered to all parts of Norfolk and Suffolk.

NORTHAMPTONSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogehoe 464) for washed and graded aggregates to B.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmac, dry, pitching stone, hardcore, etc.

BILLING GRAVEL CO., LTD., Station Road, Billing, Northampton. (Tel.: Cogehoe 219.) London Office: 23 Berkeley Square, W.1. (Tel.: Mayfair 6341.)

BRAYBROOK, E. W., LTD., Newton Road, Higham Ferrers, Northants. (Tel.: Rushden 3344 and 3345.) All grades of washed and graded aggregates to B.S. building sand, hardcore.

DOW-MAC (PRODUCTS), LTD., Billington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) Producers of building and walling stone roadstone, hardcore, broken stone, ashes, sand, gravel and hoggin, immediate delivery throughout Northamptonshire.

FERRERS AND AGGREGATES, LTD., Northampton Road Quarries, Rushden, Northants. (Tel.: Rushden 2354/5.) Largest producers in the county of all grades of high-quality concrete aggregate to B.S. Deliveries throughout Northamptonshire and adjoining counties.

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

MACKESS, A. J., LTD., Ransome Road, Northampton. (Tel.: Northampton 589.) Builders of all grades of washed aggregate. Building sand, Mixmortar (lime/sand mortar). Prompt deliveries.

NINE BARGE AND LIGHTER CO., LTD., Market Clearys, Peterborough. (Tel.: 5534/5.) and Ship End Quarries, Peterborough, near Peterborough. (Tel.: Wansford 384/5.) Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.

NEWARK (PETERBOROUGH) SAND AND GRAVEL CO., LTD., 127 Eastfield Road, Peterborough. (Tel.: Peterborough 2091.) All grades washed and screened gravel and sand.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355.) Eight quarries supplying all grades of broken and broken stone. Also Wetmix at Yarwell, Wansford. All grades gravel and sand at Maxey.

POLLARD, C. AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

NORTHAMPTONSHIRE

STORTON, F. E., LTD., Weedon Road, Northampton. (Tel.: Northampton 3358.) Producers of washed gravel and sand to B.S.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Largest producers of all grades of washed aggregates in Northamptonshire and Bedfordshire. Regular deliveries anywhere. Local office and pits: Forty Ford. (Tel.: Welford 256.)

NORTH WALES

CAWOOD, WHARTON AND CO., LTD., Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-y-lai 27.) Crushed limestone and tarred macadam, all grades.

CHESHOPPE AND NORTH WALES TARRIED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-y-lai 43.) Hard, broken limestone, dry and coated to B.S. Inquiries to Registered Office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)

ENSTON BRDS., Llwyn Isaf Quarry, Clynog Fawr, Caernarvon. (Tel.: Clynog Fawr 297/8.) All sizes crushed, washed natural sand and gravel. Highest quality. Precast concrete products, ex our Griffiths Crossing Factory, Caernarvon. (Tel.: Caernarvon 2535/6.) Crushed granite ex our quarry, Pengwern and Gwydyr Quarries, Ltd., Trefriw, Llanwrst, Denbighshire. (Llanwrst 38.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., Quarries at Penmaenmawr. (Tel.: 2256/8.) and at Trevor. (Tel.: Clynogfawr 223.) Caernarvonshire. All sizes and gradings of crushed granite aggregate. Any quantity per day; immediate delivery ex stock. Coated granite also available.

RUTHIN AND DENBIGH TARMACADAM CO., LTD., Denbigh. (Tel.: Denbigh 75.) Lime, limestone, carbonate of lime, tarmac, etc. Also inquiries to Llyn Broed, 23 Colmore Row, Birmingham. (Tel.: Central 7408—4 lines), and Lunt Bros., Ltd., Stourbridge. (Tel.: S201—6 lines.)

TERN HILL SAND AND GRAVEL CO., LTD., Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

NOTTINGHAMSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concrete sand, building sand, plastering sand and crushed gravel: could be collected ex quarry or delivered.

GUNHORPE GRAVELS (1956), LTD., (Tel.: Nottingham 77357; and Works: Lowdham 2131.) (An associate company of T. C. Campbell, Ltd.) All grades washed gravel and sand to B.S.

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) Quarries at Hoveringham, Holme, Pierpoint, Colwick, Bleasby and Newark. All grades of washed gravel and sand to any specification, crushed and graded for surface dressing of roads a speciality. Plant capacity 8,000 tons per day.

NEWARK GRAVEL AND CONCRETE CO., LTD., Grove Street, Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.

NORTH NOTTS. GRAVEL CO., LTD., Belmoor, Retford, Notts. (See Yorkshire.)

PRESTWICK, WILLIAM, AND SONS, LTD., Dronfield, Derbyshire. (Tel.: 2204—6 lines.) Dry and coated Derbyshire limestone and slag, for all purposes and to all specifications. "Haddon" foamed slag blocks.

SALISBURY AND WOOD, LTD., Matlock. (Tel.: 272/273.) (For details, see Derbyshire.)

OXFORDSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogehoe 464) for washed and graded aggregates to B.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: VIGILANT 2530.) (For details, see Leics.)

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmac, dry, pitching stone, hardcore, etc.

CURTIS, J. AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DIX, G. H., AND SON, LTD., Freeland, Oxon. (Tel.: Freeland 234.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

GRUNDON, S. (EWELEME), LTD., Eweleme, Oxon. (Tel.: Eweleme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggin, broken stone, building sand.

HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

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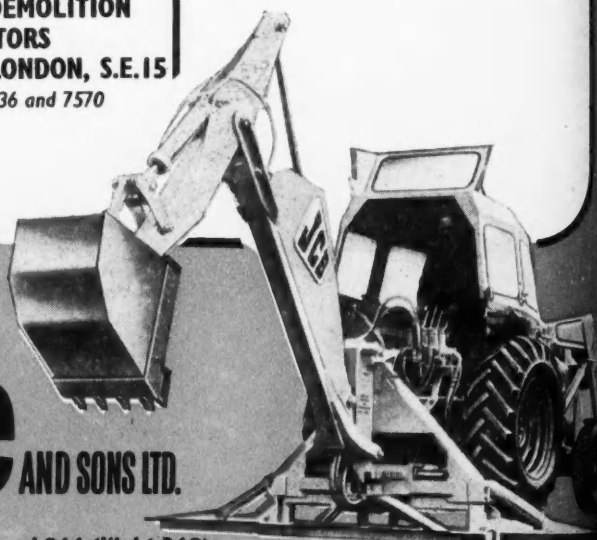
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